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Survey of Graduate Students and Postdoctorates in Science and Engineering

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Fall 1992

Technical Notes and Data Summaries

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation

NSF 94-320

Survey of Graduate Students and Postdoctorates in Science and Engineering

Fall 1992

Technical Notes and Data Summaries

J.G. Huckenpöhler, Project Monitor

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation

NSF 94-320

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SECTION I. GENERAL NOTES

The data described in this report were collected in the 21st annual National Science Foundation/National Institutes of Health (NSF/NIH) Survey of Graduate Students and Postdoctorates in Science and Engineering, covering fall 1992. This publication describes the survey and characteristics of the database. The survey universe is composed of all U.S. institutions with departments or programs offering courses of study at the postbaccalaureate level in any science and engineering (S&E) field. Medical schools and other specialized institutions in health-related fields with postdoctoral programs or S&E master's or doctoral programs are also included. The 1992 survey universe included 333 doctorate-granting institutions and 275 master's-granting institutions.

Section II presents a description of the survey methodology and response analysis. Section III lists the institutions surveyed, by degree level, along with their identifying Federal Interagency Committee on Education (FICE) codes.

Section IV displays copies of the survey instruments, along with summary questionnaire facsimiles containing data for all departments or for selected groups of departments. The facsimiles present data for all institutions, by broad science and engineering field, and summary statistics for doctorate-granting institutions, master's-granting institutions, and other selected groups of institutions. Detailed data are available in several publications. *Selected Data on Graduate Students and Postdoctorates in Science and Engineering* (NSF 94-301) includes tables summarizing results on all topics covered by the questionnaire.

Because of the large number of tables (more than 650 in 1992) generated on the basis of graduate S&E enrollment data, it is not feasible to include the full set of tables in a general-audience publication. To meet the needs of those interested in more detailed data of a specific type, NSF has developed a series of "Supplementary Data Releases" focusing on specific data topics. The 18 pamphlets available are listed on the order blank provided at the back of this book.

Tables in these publications showing data for doctorate-granting institutions include all institutions with any school (medical school, dental school, etc.) or branch campus that granted S&E doctorates for all years in which such degrees were offered. This definition differs from that used by the National Center for Education Statistics (NCES), which considers only those institutions that granted "significant numbers" of doctoral degrees to be doctorate-granting institutions.

DATA LIMITATIONS

In any analysis of the data in these publications, the following definitions and limitations should be kept in mind.

- In fall 1992 the definitions of foreign students and U.S. citizens were modified to match those used by the Department of Education's National Center for Education Statistics (NCES) and the Institute of International Education. In previous years permanent residents were counted with foreign students, but in fall 1992 permanent residents were included with U.S. citizens.

- In tables showing full-time graduate enrollment by source of support, "institutional support" includes those students receiving their primary support from State and local government sources as well as from their institutions.

- "Other U.S. sources" includes students supported by industrial firms, nonprofit institutions (independent research institutes, professional societies, philanthropic foundations, etc.), and all other sources of support originating within the United States. However, "Other U.S. sources" does not include loans, family money, or personal savings used by students supporting themselves. Students supported primarily by foreign industrial firms, as well as by foreign governments, are reported under "foreign sources."

- "Imputation," as defined by NSF, denotes a computerized process that estimates data for totally or partially nonrespondent institutions based on their own data from earlier years, if available, or data from peer institutions. Data can be imputed for an entire institution, a department, or individual cells for which the institution or department was unable to provide actual data. The imputation procedures are described in detail in section II, "Technical Notes."

- Respondent institutions can revise prior-year data as well as current data during the editing process. **Consequently, only the trend data from the current report should be used in historical analyses.**

DATA AVAILABILITY

Data published in these reports are also available on diskettes and in machine-readable form on magnetic tapes. Single-year or multiyear data tapes are available with data for fall 1975 through fall 1992. Information on tape formats and the years for which they are available, together with prices and instructions for ordering, can be found in the current data user guide, *Guide to the Data Files from the National Science Foundation's Annual Surveys of Academic Science and Engineering*. To obtain a copy of the guide, contact Dr. J.G. Huckenpöhler, who can also supply further information on the Survey of Graduate Students and Postdoctorates in Science and Engineering. His address and telephone number are—

Science and Engineering Education and
Human Resources Program
National Science Foundation
4201 Wilson Boulevard, Suite 965
Arlington, VA 22230

(703) 364-1774

E-mail: jhuckenp@nsf.gov

Selected data items for individual doctorate-granting institutions are available on computer-generated institutional profiles. These profiles cover data from this survey as well as data collected in NSF's other academic S&E surveys covering research and development (R&D) expenditures and Federal support to academic institutions. Institutional profiles for any institution or group of institutions can be ordered by FICE code (listed in section III) through Mr. Richard Bennof. He can be reached at—

Science and Engineering Activities Program
National Science Foundation
4201 Wilson Boulevard, Suite 965
Arlington, VA 22230

(703) 306-1772

E-mail: rbennof@nsf.gov

Institutional planners can now obtain data from several academic S&E resources on CD-ROM compact disc. The compact disk contains the Computer Aided Science Policy Analysis and Research (CASPAR) database system, which is an easy-to-use tool for the retrieval and analysis of statistical data on academic science and engineering resources. CASPAR provides an extensive and growing data library with multiyear statistics on the state of higher education in general and on academic S&E resources specifically. This data library is based on a set of standard institutional and field-of-science definitions across the multiple sources used to develop the database. The CASPAR program includes built-in help capabilities to facilitate the use and interpretation of the data.

CASPAR data are drawn from a number of sources. All data are available for individual institutions, by State, and at the national level. Longitudinal data from surveys of universities and colleges conducted by the NSF Division of Science Resources Studies include the R&D Expenditures Survey and the Federal Support Survey besides the Graduate Student Survey. Data from the surveys of universities and colleges conducted by NCES include Earned Degrees, Opening Fall Enrollment, Faculty Salaries, Tenure and Fringe Benefits, and Financial Statistics. Data from other sources include the National Research Council Doctorate Program Ratings. For additional information on CASPAR, contact—

Quantum Research Corp.
Attn: CASPAR
7315 Wisconsin Avenue, Suite 631W
Bethesda, MD 20814

DATA SUMMARY

- In fall 1992 495,397 graduate students were enrolled in master's and doctoral programs in the science, engineering, and health fields. This total represents a 4-percent increase from the fall 1991 figure. The increase was 3 percent in the engineering fields and 4 percent in the science fields.

- Of all science fields social science students and Earth, atmospheric, and ocean science students increased the most rapidly (almost 6 percent each). Growth was slowest in the agricultural sciences, with an increase of slightly more than 1 percent. The social sciences continued to be the most popular field in the sciences, with 85,824 graduate students or more than one-fourth of the total. Nearly one-third of the engineering graduate students, 36,272, were enrolled in electrical engineering.

- Graduate students enrolled full-time numbered 323,399 and accounted for 65 percent of the total. The number of graduate students enrolled full-time increased at a faster rate from 1991 to 1992 than did those enrolled part-time (almost 5 percent compared with 3 percent).

- The number of women enrolled in graduate S&E programs continued to rise more rapidly than the number of men, reaching 40 percent of the total. Women increased by 6 percent, whereas men increased by a little less than 3 percent. Women continued to make up the majority of those enrolled in psychology and the health fields but accounted for only 14.5 percent of engineering graduate students.

- Foreign students, at almost 23 percent of the total, increased by less than 1 percent, probably due to a change in the definition of foreign students. In previous years permanent residents were counted with foreign students, but beginning in fall 1992 permanent residents were included with U.S. citizens to conform to data collected by other sources. This definitional shift may explain why students with U.S. citizenship increased by more than 5 percent in 1992 but increased by only 3 percent in 1991. Foreign students were most heavily concentrated in the physical sciences and in engineering, making up almost 36 percent and 35 percent of the total, respectively. Foreign students also made up about one-third of all graduate students in the mathematical sciences and computer sciences.

- At almost 40 percent of the full-time total, academic institutions remained the major source of support for full-time graduate students. Self-supported students (including those supported by loans, family money, or personal savings) made up a little more than 31 percent of the full-time total. The Federal Government supported slightly more than 20 percent.

- Enrollment in doctorate-granting institutions, at 427,792, represented 86 percent of all graduate students. This percentage has varied only slightly since 1975. Nevertheless, master's-granting institutions accounted for more than one-eighth of all graduate students reported and grew by 5 percent from fall 1991 to fall 1992, compared with a 4-percent growth in enrollment at doctorate-granting institutions.

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SECTION II. TECHNICAL NOTES

THE SURVEY UNIVERSE

The data collected in the fall 1992 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSPSE) represent national estimates of graduate enrollment and postdoctoral employment at the beginning of academic year 1992–93 in all academic institutions in the United States that granted doctorate or master's degrees in any science or engineering field. Included are data for all branch campuses, affiliated research centers, and separately organized components such as medical or dental schools, schools of nursing, public health, etc. The survey universe consisted of 727 reporting units at 608 graduate institutions. Included were 275 master's-granting institutions and 452 reporting units associated with 333 doctorate-granting institutions.

The National Science Foundation has collected data on graduate science and engineering (S&E) enrollment and postdoctoral appointees since 1966. From fall 1966 through fall 1971, data from a limited number of doctorate-granting institutions were collected through the NSF Graduate Traineeship Program, which requested data only on those S&E fields supported by NSF. Beginning with the fall 1972 survey, this data collection effort was assigned to the Universities and Nonprofit Institutions Studies Group and was gradually expanded during the period 1972–75 to include additional S&E fields as well as all institutions known to have programs leading to the master's or doctorate degree. Because of this expansion, data for 1974 and earlier years are not strictly comparable with 1975 and later data. Table II-1 shows the number of institutions, reporting units, and departments at each level included in the data, as well as the total enrollment reported for each year between 1966 and 1992. No attempt has been made to inflate the data for 1966–74 to reflect universe totals.

Beginning with the 1984–85 academic year, master's-granting institutions were surveyed on a sample basis. The fall 1988 survey included the entire survey population for the first time since 1983–84. For each year since 1988, any institutions that begin S&E master's or doctoral programs are added to the survey universe and any that close all their S&E graduate programs are deleted. (See "Survey Methodology," below.)

Tables II-2 and II-3 present data on departmental coverage by S&E field for doctorate-granting and master's-granting institutions for each year in the survey.

THE SURVEY INSTRUMENTS

The Departmental or Program Data Sheet (NSF Form 812) on which data were reported in fall 1992 was identical to the fall 1991 version, except for changes in the instructions to clarify some data items, most notably the definitions of postdoctoral appointees; first-year, full-time graduate students; and sources of support for full-time students. Furthermore, in fall 1992 the definitions of foreign students and U.S. citizens were modified to match those used by the Department of Education's National Center for Education Statistics (NCES) and the Institute of International Education. In previous years permanent residents were counted with foreign students, but in fall 1992 permanent residents were included with U.S. citizens.

Each survey package also included (1) a flier explaining NSF's academic S&E surveys; (2) a computer-generated List of Departments or Programs (NSF Form 811) specific to each institution surveyed and based on the departments known to exist in the previous survey cycle; (3) a "crosswalk" showing NCES instructional program codes corresponding to each S&E field as defined by NSF; (4) a "How To Avoid Common Survey Errors" sheet with guidelines for avoiding the most common mistakes made in the Graduate Student Survey; and (5) a postcard acknowledging receipt of the survey and requesting the respondent to indicate changes in coordinator name, address, or telephone number.

SURVEY METHODOLOGY

The survey packages were mailed out by Nov. 12, 1992. The final survey universe consisted of 727 responding units at 608 institutions.

The acknowledgment postcard requested that institutional coordinators indicate how the data were collected, whether the data were maintained centrally or collected from individual departments, and whether they were derived from a computerized database or were hand tabulated. Of the 727 responding schools surveyed, coordinators at 697 units, or 96 percent, have provided this information over the past 6 years. The responding coordinators indicated the following distribution of data sources:

Schools reporting data sources	N = 697	Percent = 95.9
Computerized central records	76	105
Automated with departmental input	18	2.5
Hand-tabulated at the institutional level	49	6.7
Hand-tabulated at the departmental level	192	26.4
Combination of sources	362	49.8

This pattern is similar to that for 1991. This year the number of schools using computerized systems to assemble the requested data increased as did those using automated systems with departmental input and those hand tabulating data at the department level. The number of schools hand tabulating data at the institution level remained relatively the same as last year, whereas those using a combination of data sources decreased.

Institutional coordinators were asked to review the departmental listing provided on the Form 811, to indicate any changes in their departmental structure such as departments newly formed, phased out, split, or merged, and to check off any departments that had neither graduate students nor postdoctorates and for which Form 812s would therefore not be submitted. The revised Form 811s were returned to the data processing contractor for use as a checklist in tracking departmental responses.

A Form 812 was completed for each department either centrally or at the departmental level and was returned to the data processing contractor for data entry, editing, and tabulation. Arithmetic errors, inconsistencies between items, and sharp year-to-year fluctuations were referred to the institutional coordinators for correction or clarification.

THE RESPONSE RATE

Of the 727 responding units included in the fall 1992 survey, 726, or 99.9 percent, were able to provide at least partial data, distributed as follows:

Highest degree granted	Number surveyed	Number responding	Percentage responding
Doctorate and master's	727	726	99.9
Doctorate	452	451	99.8
Master's	275	275	100.0

At the departmental level 10,604 departments responded, or 97.0 percent of the 10,936 departments surveyed. This includes 9,066 departments providing complete responses, or 82.9 percent of the total. A total of 332 departments, or 3.0 percent of the departmental total, required complete imputation, and 1,538, or 14.1 percent, had one or more data cells imputed. Table II-4 presents the response rates for earlier years for comparison.

Missing data for partially nonrespondent departments were imputed using the departments' previous year's data, where available, or data from peer institutions in cases where data had not been reported the previous year. Data for nonrespondent departments (departments that did not provide any data) were imputed using data from the previous year, where available. For the two nonrespondent departments that were new to the survey, data could not be imputed. The number of departments in doctorate-granting and master's-granting institutions that required total or partial imputation and the numbers and proportions of full-time and part-time graduate students and postdoctorates imputed are shown in tables II-5 through II-8. In 1992 imputation rates for graduate students in master's-granting institutions were slightly higher than for those in doctorate-granting institutions.

CHANGES IN DATA ITEMS

Although NSF has attempted to maintain consistent trend data, some modifications in the survey questionnaire have been made to respond to changing issues over the past 15 years. As a result some data items are not available for all institutions in all years.

Whenever a new item has been added to the questionnaire, it has been NSF's standard policy to allow the respondents 1 year's leadtime to convert their data collection systems before incorporating the new data into the survey; the question is labeled "optional" in the first year. Thus, whereas information on racial/ethnic background was first added to the survey form in 1979, publishable data were first obtained in 1980. Major changes in the data collected are as follows:

- From 1975 through 1977, data for master's-granting institutions were collected on a short form (i.e., an abbreviated form of the survey) that did not collect data on sex or citizenship of graduate students, nor any data on postdoctoral appointees. In 1978 a similar questionnaire was sent to doctorate-granting institutions, but master's-granting institutions were not surveyed. The 1978 figures shown in the tables for master's-granting institutions represent estimates based on 1977 and 1979 data. Beginning in 1979 the long form (i.e., the full-scale survey form) was sent to both doctorate-granting and master's-granting institutions.

- Distribution by sex was originally requested only for full-time graduate students at doctorate-granting institutions. Beginning in 1976 master's-granting institutions were requested to provide data on all graduate students by sex, and in 1977 similar data were requested for all graduate students in all institutions. The short form used in the 1978 survey did not request any information on sex; figures in the tables represent estimates based on 1977 and 1979 data.

- Citizenship data were collected only for graduate students enrolled full-time in doctorate-granting institutions through 1977. No citizenship data were requested on the short form used for master's-granting institutions in 1975 through 1977 and for doctorate-granting institutions in 1978. Data on citizenship of all full-time graduate students are available beginning in 1979 and on those enrolled part-time since 1983.

- As noted above, racial/ethnic data were first requested in 1979 and became a standard item on the questionnaire in 1980. However, imputation rates for this item are still higher than for other data on the questionnaire, as shown in tables II-6 and II-8.

- "Fellowships and traineeships" were combined on one line until 1979, when separate data on the two mechanisms were first collected.

- "Other nonfaculty research staff with doctorates" were combined with postdoctoral appointees until 1979.

- Separate data on students receiving their primary support from the U.S. Department of Agriculture were first requested in 1985.

DATA REVISIONS

During the fall 1988 survey cycle, the criteria for including departments in the survey universe were tightened, and all departments surveyed were reviewed. Those departments not primarily oriented toward granting research degrees were no longer considered to meet the definition of science and engineering. As a result of this review, it was determined that a number of departments, primarily in the field of "Social sciences, n.e.c." (not elsewhere classified), were engaged in training primarily teachers, practitioners, administrators, or managers rather than researchers; these departments were deleted from the database. This process was continued during the fall 1989, 1990, 1991, and 1992 survey cycles and expanded to ensure trend consistency for the entire 1975–92 period. As a result, total enrollments and social science enrollments for all years were reduced. The net effect of adjustments over the years is shown in table II-9.

The definition of "medical schools" was revised during the fall 1992 survey cycle to include only those institutional components that are members of the Association of American Medical Colleges. Tables generated after the fall 1992 survey differ from their counterparts in earlier years in that they exclude schools of nursing, public health, dentistry, veterinary medicine, and other health-related disciplines, and should not be compared with tables from earlier years.

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Table II-1. The NSF data collection series: 1966-92

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Series and year	Number of institutions surveyed	Number of reporting units	Number of departments			Graduate enrollment in surveyed fields		
			Total	Master's	Doctorate	Total	Full-time	Part-time
A. Graduate Traineeship Program								
1966	204	204	2,866	441	2,425	169,303	124,255	45,048
1967	209	209	3,014	434	2,580	179,622	133,972	45,650
1968	219	219	3,190	454	2,736	184,759	140,714	44,045
1969	224	224	3,354	460	2,894	196,341	147,515	48,826
1970	227	227	3,544	473	3,071	201,918	153,250	48,668
1971	224	249	3,397	407	2,990	214,680	164,764	49,916
B. Survey of Graduate Science and Engineering Students and Postdoctorates 1/								
Doctorate institutions								
1972 2/	260	328	4,593	780	3,813	210,895	161,329	49,566
1973	254	336	6,543	862	5,681	214,787	161,858	52,929
1974	279	369	7,496	1,409	6,087	260,970	191,246	69,724
1975	303	400	7,802	1,622	6,180	291,947	206,797	85,150
1976	311	409	7,892	1,671	6,221	295,526	210,117	85,409
1977	313	416	8,112	1,794	6,318	303,448	212,576	90,872
1978	311	420	8,150	1,759	6,391	299,971	209,380	90,591
1979	329	447	8,353	1,863	6,490	312,816	216,801	96,015
1980	328	446	8,458	1,913	6,545	322,846	223,012	99,834
1981	328	444	8,397	1,916	6,481	329,702	226,921	102,781
1982	327	444	8,250	1,899	6,351	336,221	229,993	106,228
1983	327	443	8,139	1,877	6,262	343,071	236,676	106,995
1984	324	444	8,175	1,880	6,295	346,431	237,460	108,971
1985	324	440	8,292	1,915	6,377	356,022	241,605	114,417
1986	324	441	8,366	1,930	6,436	367,163	250,470	116,693
1987	329	448	8,495	1,942	6,553	372,461	254,865	117,596
1988	334	454	8,707	1,993	6,714	377,674	259,848	117,826
1989	334	453	8,839	2,014	6,825	385,025	267,554	117,471
1990	334	454	8,967	2,056	6,911	398,405	275,262	123,143
1991	333	453	9,138	2,078	7,060	411,296	286,756	124,540
1992	333	452	9,329	2,070	7,259	427,792	299,753	128,039
Master's institutions								
1975 3/	283	283	1,224	1,224	N/A	37,711	13,692	24,019
1976	285	285	1,242	1,242	N/A	39,234	13,998	25,236
1977	289	289	1,211	1,211	N/A	43,608	15,286	28,322
1978 4/	2	2	18	18	N/A	45,216	15,692	29,524
1979	301	301	1,374	1,374	N/A	47,178	16,288	30,890
1980	299	299	1,388	1,388	N/A	47,047	16,843	30,204
1981	295	295	1,387	1,387	N/A	48,402	16,750	31,652
1982	283	283	1,387	1,387	N/A	48,835	16,225	32,610
1983	283	283	1,388	1,388	N/A	50,977	17,659	33,318
1984 5/	88	88	669	669	N/A	51,747	18,137	33,610
1985 5/	88	88	686	686	N/A	51,920	17,862	34,058
1986 5/	88	88	689	689	N/A	52,175	17,934	34,241
1987 5/	88	88	697	697	N/A	52,897	18,569	34,328
1988	277	277	1,424	1,424	N/A	52,157	18,319	33,838
1989	275	275	1,479	1,479	N/A	55,958	19,065	36,893
1990	276	276	1,516	1,516	N/A	60,538	20,574	39,964
1991	276	276	1,567	1,567	N/A	64,395	21,913	42,482
1992	275	275	1,607	1,607	N/A	67,605	23,646	43,959

1/ The name of the survey was changed in 1981 to specify the inclusion of engineering.

2/ The 1972 survey of doctorate-granting institutions included selected data items for 1971.

3/ The 1976 survey of master's-granting institutions included selected data items for 1975.

4/ The 1978 survey did not include master's institutions. Two institutions were subsequently changed from doctorate- to master's-granting. Totals represent estimates based on 1977 and 1979 data.

5/ Master's-granting institutions were surveyed on a sample basis from 1984 through 1987.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table II-2. Science and engineering departmental population at doctorate-granting institutions by field: 1984-92

Page 1 of 2

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992
Total, all surveyed fields	8,142	8,256	8,326	8,443	8,645	8,768	8,909	9,103	9,329
Total, science/engineering fields	5,852	5,932	5,972	6,073	6,245	6,323	6,396	6,547	6,699
Engineering, total	1,064	1,102	1,113	1,158	1,185	1,195	1,216	1,250	1,284
Aerospace	35	36	36	38	41	41	42	44	48
Agricultural	40	42	41	40	40	40	40	40	40
Biomedical	42	42	41	46	49	50	51	52	57
Chemical	126	126	126	128	129	132	132	137	138
Civil	167	174	179	182	185	181	184	190	195
Electrical	160	167	167	179	183	188	191	198	204
Engineering science	32	34	35	34	35	35	35	36	37
Industrial	98	102	103	111	118	124	125	131	135
Mechanical	157	166	169	175	176	172	173	176	181
Metallurgical/materials	69	73	74	76	78	83	88	95	100
Mining	25	26	25	29	29	26	27	28	28
Nuclear	29	29	28	27	27	27	26	26	25
Petroleum	16	16	16	19	19	19	19	19	19
Engineering, n.e.c.	68	69	73	74	76	77	83	78	77
Sciences, total	4,788	4,830	4,859	4,915	5,060	5,128	5,180	5,297	5,415
Physical sciences	522	522	529	528	532	535	533	543	547
Astronomy	32	33	33	33	33	33	33	33	33
Chemistry	251	250	251	251	253	255	255	258	258
Physics	229	228	230	228	232	235	233	240	242
Physical sciences, n.e.c.	10	11	15	16	14	12	12	12	14
Earth, atmospheric, and ocean sciences	284	291	292	295	303	305	309	320	321
Atmospheric sciences	27	27	27	28	28	28	28	29	29
Geosciences	186	188	189	187	191	191	192	199	200
Oceanography	33	36	36	37	37	41	41	44	44
Earth, atmos., and ocean sci., n.e.c.	38	40	40	43	47	45	48	48	48
Mathematical sciences	332	330	334	336	342	346	352	358	366
Computer sciences	151	179	191	206	210	213	225	231	241
Agricultural sciences	275	275	275	273	275	279	290	299	310
Biological sciences	1,745	1,755	1,762	1,786	1,809	1,818	1,819	1,862	1,906
Anatomy	118	116	113	114	113	115	106	106	106
Biochemistry	180	184	186	187	189	189	183	187	190
Biology	212	208	211	214	218	220	225	223	226
Biometry/epidemiology	41	44	46	47	48	49	51	56	61
Biophysics	30	27	30	31	31	32	31	33	33
Botany	106	106	105	106	108	107	103	103	102
Cell biology	60	64	73	82	87	88	92	96	103
Ecology	23	23	23	22	22	25	26	27	28
Entomology/parasitology	46	49	48	47	48	47	48	49	49
Genetics	60	60	60	61	64	65	67	72	76
Microbiology	230	234	230	232	234	233	237	243	250
Nutrition	90	92	93	98	99	99	104	108	112
Pathology	148	146	146	149	147	145	145	149	149
Pharmacology	170	168	164	164	168	165	162	163	167
Physiology	143	143	144	148	146	150	145	146	145
Zoology	52	55	56	54	53	51	50	50	48
Biosciences, n.e.c.	36	36	34	32	36	38	44	51	61
Psychology	336	338	339	347	418	441	453	475	501
Social sciences	1,143	1,140	1,137	1,144	1,171	1,191	1,199	1,209	1,223
Agricultural economics	51	52	52	51	51	52	52	52	53
Anthropology	112	114	112	114	115	116	119	123	125
Economics (except agricultural)	184	183	185	187	190	191	190	192	195
Geography	96	96	95	95	94	92	93	95	96
History and philosophy of science	26	23	22	24	24	23	23	21	19
Linguistics	62	63	62	66	69	70	69	71	70
Political science	283	281	278	278	291	297	294	297	300
Sociology	161	161	158	160	157	163	165	165	165
Sociology/anthropology	34	33	34	33	33	32	33	32	32
Social sciences, n.e.c.	134	134	139	138	147	155	161	161	168

See explanatory information, if any, and SOURCE(S) at end of table

Table II-2. Science and engineering departmental population at doctorate-granting institutions by field: 1984-92

Page 2 of 2

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992
Total, health fields	2,290	2,324	2,354	2,370	2,400	2,445	2,513	2,556	2,630
Anesthesiology	82	82	81	80	79	82	83	85	85
Oncology/cancer research	27	30	33	32	32	36	37	39	45
Cardiology	69	69	69	68	67	67	67	68	69
Dentistry	82	84	82	83	83	85	84	82	88
Endocrinology	71	70	71	70	72	73	74	74	73
Gastroenterology	66	65	65	64	64	64	65	65	66
Hematology	70	70	71	71	70	68	67	67	68
Neurology	108	109	112	114	119	124	128	133	136
Nursing	102	105	111	113	116	117	119	122	127
Obstetrics/gynecology	87	89	89	90	91	91	92	92	94
Opthalmology	78	78	77	76	76	77	79	79	79
Otorhinolaryngology	68	67	67	67	68	68	70	70	70
Pediatrics	101	100	101	105	106	105	107	107	109
Phamaceutical sciences	80	80	81	82	79	81	83	84	89
Preventive medicine/community health	141	150	153	154	158	157	164	166	173
Psychiatry	93	92	92	94	92	98	101	100	101
Pulmonary disease	64	63	64	63	62	63	63	62	64
Radiology	114	115	114	117	120	121	126	130	134
Speech pathology/audiology	119	123	122	121	122	123	124	125	129
Surgery	213	213	214	213	216	216	221	233	235
Veterinary sciences	34	33	34	35	36	37	41	41	42
Clinical medicine, n.e.c.	287	296	304	305	311	315	331	342	352
Health related, n.e.c.	134	141	147	153	163	177	187	190	202

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table II-3. Science and engineering departmental population at master's-granting institutions by field: 1984-92

Page 1 of 2

Field	1984 1/	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields	668	682	685	693	1,408	1,463	1,499	1,560	1,607
Total, science/engineering fields	598	610	613	620	1,251	1,300	1,328	1,373	1,408
Engineering, total	98	104	106	109	170	185	197	202	204
Aerospace	3	3	3	3	3	3	3	2	2
Agricultural	0	0	0	0	0	0	0	0	0
Biomedical	2	2	2	2	3	3	3	3	3
Chemical	5	5	5	5	8	8	8	9	9
Civil	16	16	17	18	31	34	34	36	35
Electrical	18	18	19	19	36	43	49	48	50
Engineering science	4	4	4	4	3	2	2	2	2
Industrial	14	15	15	17	26	30	31	33	35
Mechanical	14	15	17	16	25	26	28	28	28
Metallurgical/materials	4	5	5	5	5	6	7	7	7
Mining	3	4	4	4	4	4	4	4	4
Nuclear	0	0	0	0	0	0	0	0	0
Petroleum	1	2	2	2	2	2	2	2	2
Engineering, n.e.c.	14	15	13	14	24	24	26	28	27
Sciences, total	500	506	507	511	1,081	1,115	1,131	1,171	1,204
Physical sciences	66	66	69	68	135	135	137	140	139
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	42	42	43	42	86	88	89	89	89
Physics	18	18	18	18	38	34	35	36	35
Physical sciences, n.e.c.	6	6	8	8	11	13	13	15	15
Earth, atmospheric, and ocean sciences	26	26	26	27	54	55	55	59	63
Atmospheric sciences	1	1	1	1	1	1	1	1	1
Geosciences	11	11	12	13	32	32	32	35	34
Oceanography	3	3	3	4	5	6	6	6	7
Earth, atmos., and ocean sci., n.e.c.	11	11	10	9	16	16	16	17	21
Mathematical sciences	44	44	43	43	110	114	112	115	117
Computer sciences	29	32	35	36	76	80	84	89	93
Agricultural sciences	10	10	10	12	29	31	26	27	28
Biological sciences	92	93	89	89	189	192	189	192	193
Anatomy	0	0	0	0	0	0	0	0	0
Biochemistry	3	3	3	4	3	3	3	3	3
Biology	53	54	53	51	147	149	147	149	148
Biometry/epidemiology	0	0	0	0	0	0	0	1	0
Biophysics	0	0	0	0	0	0	0	0	0
Botany	6	6	5	5	4	4	4	4	4
Cell biology	0	0	0	0	0	0	0	0	0
Ecology	3	3	3	3	3	3	3	3	3
Entomology/parasitology	0	0	0	0	0	0	0	0	0
Genetics	1	1	1	1	1	1	1	1	1
Microbiology	4	4	4	4	3	3	2	2	2
Nutrition	8	8	8	8	12	12	12	12	14
Pathology	2	2	2	2	2	2	2	2	2
Pharmacology	1	1	1	1	1	1	1	1	1
Physiology	0	0	0	0	0	0	0	0	0
Zoology	5	5	3	4	3	3	3	3	3
Biosciences, n.e.c.	6	6	6	6	10	11	11	11	12
Psychology	67	67	70	71	198	212	225	233	244
Social sciences	166	168	165	165	290	296	303	316	327
Agricultural economics	3	3	3	2	2	2	2	2	3
Anthropology	13	13	12	12	12	12	13	13	13
Economics (except agricultural)	25	24	24	23	36	38	37	38	39
Geography	15	17	16	16	23	23	24	25	26
History and philosophy of science	0	0	0	0	0	0	0	0	0
Linguistics	3	4	4	4	5	5	4	6	7
Political science	50	50	51	51	110	113	113	115	119
Sociology	25	26	27	27	48	48	49	52	53
Sociology/anthropology	5	5	4	4	5	4	3	2	2
Social sciences, n.e.c.	27	26	24	26	49	51	58	63	65

See explanatory information, if any, and SOURCE(S) at end of table

Table II-3. Science and engineering departmental population at master's-granting institutions by field: 1984-92

Page 2 of 2

Field	1984 1/	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, health fields	70	72	72	73	157	163	171	187	199
Anesthesiology	0	0	0	0	1	1	1	1	2
Oncology/cancer research	0	0	0	0	0	0	0	0	0
Cardiology	1	1	1	1	0	0	0	0	0
Dentistry	0	0	0	0	0	0	0	0	0
Endocrinology	0	0	0	0	0	0	0	0	0
Gastroenterology	0	0	0	0	0	0	0	0	0
Hematology	0	0	0	0	0	0	0	0	0
Neurology	1	1	1	1	1	1	1	1	1
Nursing	13	15	16	16	44	48	50	54	57
Obstetrics/gynecology	0	0	0	0	0	0	0	0	0
Opthalmology	0	0	0	0	0	0	0	0	0
Otorhinolaryngology	0	0	0	0	0	0	0	0	0
Pediatrics	0	0	0	0	0	0	0	0	0
Phamaceutical sciences	3	3	3	3	3	3	3	3	3
Preventive medicine/community health	4	4	4	4	5	5	5	7	7
Psychiatry	0	0	0	0	0	0	0	0	0
Pulmonary disease	0	0	0	0	0	0	0	0	0
Radiology	0	0	0	0	0	0	0	0	0
Speech pathology/audiology	22	23	22	22	50	52	55	60	61
Surgery	0	0	0	0	0	0	0	0	0
Veterinary sciences	1	1	1	1	1	1	1	1	1
Clinical medicine, n.e.c.	4	4	4	4	4	4	3	3	4
Health related, n.e.c.	21	20	20	21	48	48	52	57	63

1/ Number of departments in sampled institutions

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table II-4. Departmental response rates: 1975-92

Page 1 of 1

Year	Total	Complete response	Percent	Partial response	Percent	Non-response	Percent
1975	9,162	8,998	98.2	NA	NA	NA	NA
1976	9,275	9,148	98.6	NA	NA	NA	NA
1977	9,513	9,432	99.1	NA	NA	NA	NA
1978	8,242	8,077	98.0	NA	NA	NA	NA
1979	9,796	9,446	96.4	NA	NA	NA	NA
1980	9,930	9,593	96.6	NA	NA	NA	NA
1981	9,917	8,594	86.7	613	6.2	710	7.2
1982	9,776	8,104	82.9	744	7.6	928	9.5
1983	9,663	8,070	83.5	816	8.4	777	8.0
1984	8,748	7,490	85.6	643	7.4	615	7.0
1985	9,025	7,818	86.6	672	7.4	535	5.9
1986	9,097	7,817	85.9	779	8.6	501	5.5
1987	9,254	8,030	86.8	715	7.7	509	5.5
1988	10,295	8,812	85.6	970	9.4	513	5.0
1989	10,318	8,908	86.3	891	8.6	519	5.0
1990	10,483	8,884	84.7	1053	10.1	546	5.2
1991	10,705	9,052	84.6	1186	11.1	467	4.4
1992	10,936	9,066	82.9	1538	14.1	332	3.1

NOTE: Departments providing partial responses were tabulated separately from complete nonrespondents beginning in 1981.

KEY: NA = Not available

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table II-5. Imputation for nonresponse at doctorate-granting institutions by area of science and engineering and enrollment status: 1992

Page 1 of 1

Area of science and engineering	Number of graduate departments		Total in survey			Number imputed			Imputation rate (percent)		
	In universe	Totally imputed	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates
Total, all areas	9,329	280	299,753	128,039	33,187	7,201	3,224	1,268	2.4	2.5	3.8
Engineering	1,284	28	71,823	36,469	2,344	1,551	706	38	2.2	1.9	1.6
Physical sciences	547	9	30,011	3,600	5,772	435	32	86	1.4	0.9	1.5
Earth, atmospheric, and ocean sciences	321	7	10,567	3,397	709	292	46	17	2.8	1.4	2.4
Mathematical sciences	366	4	13,869	4,001	201	88	40	1	0.6	1.0	0.5
Computer sciences	241	4	15,554	13,488	149	263	514	10	1.7	3.8	6.7
Agricultural sciences	310	6	8,907	1,984	634	138	27	9	1.5	1.4	1.4
Biological sciences	1,906	58	42,769	7,454	13,287	1,150	71	410	2.7	1.0	3.1
Psychology	501	29	27,192	10,506	521	1,326	313	17	4.9	3.0	3.3
Social sciences	1,223	32	50,272	22,898	407	1,202	405	3	2.4	1.8	0.7
Health fields	2,630	103	28,769	24,242	9,163	756	1,070	677	2.6	4.4	7.4

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

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Table II-6. Imputed data for all departments at doctorate-granting institutions: Fall 1992
[No. of departments: 1,419 (totally imputed departments: 280]

Page 1 of 2

ITEM 5. NUMBER OF **FULL-TIME** GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992. Report each student **only once** according to the source and mechanism of **the largest amount of support** received in fall 1992.

Students receiving equal support from multiple sources or through multiple mechanisms should be reported only once. When determining the largest source of support, consider all graduate school expenses including tuition, tuition remission, other academic expenses, stipends, and living expenses.

MECHANISMS OF SUPPORT	Line No	STUDENTS RECEIVING FINANCIAL ASSISTANCE									SELF-SUPPORTED STUDENTS (including loans and family sources)	**TOTAL FULL-TIME GRADUATE ENROLLMENT** (Sum of (A) through (J))
		FEDERAL SOURCES (excluding loans)						NON-FEDERAL SOURCES				
		Department of Defense	HHS		National Science Foundation	Department of Agriculture	Other Federal sources	Institutional support (including State and local government)	Foreign sources	Other U.S. sources		
			National Institutes of Health	Other HHS								
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
Graduate Fellowships	(1)	35	60	21	110	6	145	1,249	269	302		2,024
Graduate Traineeships	(2)	7	420	430	4	1	169	366	19	39		1,455
Graduate Research Assistantships	(3)	697	1,000	80	996	140	862	2,714	59	852		6,534
Graduate Teaching Assistantships	(4)		4	4	2	0	16	6,554		104		5,727
Other Types of Support	(5)	658	32	3	7	1	87	1,448	226	616	11,442	13,775
FULL-TIME TOTAL*	(6)	1,397	1,516	538	1,119	148	1,279	12,173	573	1,913	11,442	7,339
Of the students in line (6), how many in each data cell are WOMEN?	(7)	132	756	~~145~~	234	53	459	5,652	86	578	6,437	5,702

FIRST-YEAR STUDENTS	(8)	Of the students on line (6), column (K), how many are FIRST-YEAR students? (Should not exceed total on line (6)).	5,431
FIRST-YEAR WOMEN STUDENTS	(9)	Of the first-year students on line (8), how many are WOMEN?	2,246

* The total from line (6) should be inserted in item (7), line (1), column (H)

Table II-6. Imputed data for all departments at doctorate-granting institutions: Fall 1992

[No. of departments: 1,419 (totally imputed departments: 280)]

ITEM 6. NUMBER OF **PART-TIME** GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992.		
PART-TIME TOTAL*	(1)	3,985
Of the students on line (1), how many are WOMEN?	(2)	3,813

*The total from line (1) should be inserted in item (7), line (2), column (H)

ITEM 7. **RACE/ETHNICITY** OF FULL-TIME (line (1)) and PART-TIME (line (2)) graduate students in fall 1992.		U.S. CITIZENS AND PERMANENT RESIDENTS							
Of the student totals in items 5 and 6, how many belong to the following RACIAL/ETHNIC categories? **Be sure to count each student only once.**		Black non-Hispanic (A)	Amer. Indian/ Alaskan Native (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other, unknown or declined to state (F)	FOREIGN temporary visa holders (G)	TOTAL (Sum of (A) through (G)) (H)
FULL TIME, column (H), should equal item 5, line (6), column (K)	(1)	348	16	807	1,197	9,326	1,030	5,144	7,339
PART TIME, column (H), should equal item 6, line (1)	(2)	401	15	846	675	8,547	1,255	1,405	3,985

ITEM 8. NUMBER OF **POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES** in fall 1992.		POSTDOCTORATES							
		SOURCE OF SUPPORT				TOTAL for all sources (A) through (D) (E)	Of the total in (E), how many are FOREIGN? (F)		OTHER NON-FACULTY RESEARCH STAFF WITH DOCTORATES (G)
		Federal			Non-Federal (D)				
		Fellowships (A)	Traineeships (B)	Research grants (C)					
TOTAL	(1)	372	380	1,928	1,199	2,717	1,656		121
Of the total in each cell of line (1), how many are WOMEN?	(2)	117	119	553	322	864	743		51
Of the total in each cell of line (1), how many hold the M.D., D.O., D.D.S., or D.V.M. degree?	(3)	118	190	270	431	927	524		18

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table II-7. Imputation for nonresponse at master's-granting institutions by area of science and engineering and enrollment status: 1992

Page 1 of 1

Area of science and engineering	Number of graduate departments		Total in survey			Number imputed			Imputation rate (percent)		
	In universe	Totally imputed	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates
Total, all areas	1,607	51	23,646	43,959	99	682	1,148	2	2.9	2.6	2.0
Engineering	204	6	2,643	7,112	10	87	20	0	3.3	0.3	0.0
Physical sciences	139	3	719	1,166	52	0	3	1	0.0	0.3	1.9
Earth, atmospheric, and ocean sciences	63	5	583	1,062	4	39	35	0	6.7	3.3	0.0
Mathematical sciences	117	1	774	1,711	0	3	5	0	0.4	0.3	0.0
Computer sciences	93	3	2,063	5,291	1	79	41	0	3.8	0.8	0.0
Agricultural sciences	28	1	373	345	0	23	31	0	6.2	9.0	0.0
Biological sciences	193	4	1,749	2,465	23	48	88	0	2.7	3.6	0.0
Psychology	244	10	7,194	8,928	5	186	255	0	2.6	2.9	0.0
Social sciences	327	12	3,911	8,743	1	135	310	0	3.5	3.5	0.0
Health fields	199	6	3,637	7,136	3	82	360	1	2.3	5.0	33.3

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

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Table II-8. Imputed data for all departments at master's-granting institutions: Fall 1992

[No. of departments: 447 (totally imputed departments: 51)]

Page 1 of 2

ITEM 5. NUMBER OF FULL-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992. Report each student only once according to the source and mechanism of the largest amount of support received in fall 1992.

Students receiving equal support from multiple sources or through multiple mechanisms should be reported only once. When determining the largest source of support, consider all graduate school expenses including tuition, tuition remission, other academic expenses, stipends, and living expenses.

MECHANISMS OF SUPPORT	Line No	STUDENTS RECEIVING FINANCIAL ASSISTANCE									SELF-SUPPORTED STUDENTS (including loans and family sources)	TOTAL FULL-TIME GRADUATE ENROLLMENT (Sum of (A) through (J))
		FEDERAL SOURCES (excluding loans)						NON-FEDERAL SOURCES				
			HHS									
		Department of Defense	National Institutes of Health	Other HHS	National Science Foundation	Department of Agriculture	Other Federal sources	Institutional support (including State and local government)	Foreign sources	Other U.S. sources		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
Graduate Fellowships	(1)	0	0	0	1	3	5	58	0	9		73
Graduate Traineeships	(2)	0	7	21	0	0	6	58	0	12		104
Graduate Research Assistantships	(3)	11	21	15	5	4	66	170	0	28		289
Graduate Teaching Assistantships	(4)		2	0	2	0	0	325		0		294
Other Types of Support	(5)	4	0	0	0	0	223	159	32	29	3,813	3,556
FULL-TIME TOTAL*	(6)	15	30	36	8	7	300	790	32	78	3,813	727
Of the students in line (6), how many in each data cell are WOMEN?	(7)	2	20	14	5	6	163	412	1	25	2,167	606

FIRST-YEAR STUDENTS	(8)	Of the students on line (6), column (K), how many are FIRST-YEAR students? (Should not exceed total on line (6)).	1,169
FIRST-YEAR WOMEN STUDENTS	(9)	Of the first-year students on line (8), how many are WOMEN?	580

* The total from line (6) should be inserted in item (7), line (1), column (H)

Table II-8. Imputed data for all departments at master's-granting institutions: Fall 1992

[No. of departments: 447 (totally imputed departments: 51)]

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ITEM 6. NUMBER OF **PART-TIME** GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992.		
PART-TIME TOTAL*	(1)	1,314
Of the students on line (1), how many are WOMEN?	(2)	1,130

*The total from line (1) should be inserted in item (7), line (2), column (H)

ITEM 7. **RACE/ETHNICITY** OF FULL-TIME (line (1)) and PART-TIME (line (2)) graduate students in fall 1992.	Of the student totals in items 5 and 6, how many belong to the following RACIAL/ETHNIC categories? Be sure to count each student only once.		U.S. CITIZENS AND PERMANENT RESIDENTS							
			Black non-Hispanic (A)	Amer. Indian/ Alaskan Native (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other, unknown or declined to state (F)	FOREIGN: temporary visa holders (G)	TOTAL (Sum of (A) through (G)) (H)
	FULL TIME, column (H), should equal item 5, line (6), column (K)	(1)	130	4	105	126	1,562	559	578	727
	PART TIME, column (H), should equal item 6, line (1)	(2)	384	8	215	107	4,818	828	344	1,314

ITEM 8. NUMBER OF **POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES** in fall 1992.		POSTDOCTORATES						OTHER NON-FACULTY RESEARCH STAFF WITH DOCTORATES (G)
		SOURCE OF SUPPORT				TOTAL for all sources (A) through (D) (E)	Of the total in (E), how many are FOREIGN? (F)	
		Federal			Non-Federal (D)			
		Fellowships (A)	Traineeships (B)	Research grants (C)				
TOTAL	(1)	0	0	11	3	14	1	4
Of the total in each cell of line (1), how many are WOMEN?	(2)	0	0	1	0	1	0	0
Of the total in each cell of line (1), how many hold the M.D., D.O., D.D.S., or D.V.M. degree?	(3)	0	0	0	0	0	0	0

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table II-9. Comparison of graduate enrollment data as originally published and as modified through the fall of 1992 Graduate Student Survey cycle: 1975-92

Year	Total, all institutions			Doctorate-granting institutions			Master's-granting institutions		
	Original total	Revised total	Percent change	Original total	Revised total	Percent change	Original total	Revised total	Percent change
	Total graduate enrollment in surveyed fields								
1975 1/	329,202	328,892	-0.1	291,632	292,716	0.4	37,750	36,176	-4.2
1976 ...	334,383	334,128	-0.1	295,138	296,448	0.4	39,245	37,680	-4.0
1977 ...	345,962	345,820	0.2	302,277	303,637	2.9	43,685	42,183	-3.4
1978 2/	NA	345,187	NA	298,788	298,665	0.0	NA	45,216	NA
1979 ...	358,844	358,622	-0.1	311,527	312,096	0.2	47,317	46,526	-3.8
1980 ...	368,390	368,328	-0.1	321,188	321,851	0.2	47,202	46,477	-1.5
1981 ...	376,533	376,326	-0.1	327,904	328,507	0.2	48,629	47,819	-1.7
1982 ...	383,549	383,380	-0.1	334,570	334,697	0.0	48,979	48,683	-0.6
1983 ...	392,376	391,818	-0.1	341,360	341,160	-0.1	51,016	50,658	-0.7
1984 3/	396,649	395,660	-0.2	344,855	344,066	-0.2	51,794	51,594	-0.4
1985 3/	405,432	405,596	0.0	353,696	353,844	0.0	51,736	51,752	0.0
1986 3/	416,442	416,577	0.0	364,234	364,460	0.1	52,208	52,117	-0.2
1987 3/	421,441	422,585	0.3	368,358	370,112	0.5	53,083	52,473	-6.8
1988 ...	425,752	425,932	0.0	373,909	374,275	0.1	51,843	51,657	-0.4
1989 ...	434,861	436,071	0.3	379,521	381,520	0.5	55,340	54,551	-6.8
1990 ...	444,346	454,065	2.2	384,911	394,794	2.6	59,435	59,271	-0.3
1991 ...	475,691	472,950	-0.6	411,296	409,361	-0.5	64,395	63,589	-1.2
1992 ...	495,397	N/A	N/A	427,792	N/A	N/A	67,605	N/A	N/A
	Full-Time								
1975 1/	220,123	219,961	-0.1	206,512	206,447	0.0	13,611	13,514	-0.7
1976 ...	223,855	223,705	-0.1	209,856	209,884	0.0	13,999	13,821	-1.3
1977 ...	227,187	227,078	0.0	211,822	211,844	0.0	15,365	15,234	-2.9
1978 2/	NA	225,072	NA	208,636	208,579	0.0	NA	15,692	NA
1979 ...	232,376	232,231	-0.1	215,955	215,715	-0.1	16,421	16,516	0.6
1980 ...	238,868	238,849	0.0	221,912	221,920	0.0	16,956	16,929	-0.2
1981 ...	242,777	242,453	-0.1	225,910	225,733	-0.1	16,867	16,720	-0.9
1982 ...	245,378	245,062	-0.1	229,114	228,430	-0.3	16,264	16,632	2.3
1983 ...	252,846	252,391	-0.2	235,166	234,521	-0.9	17,680	17,870	1.1
1984 3/	254,753	254,277	-0.2	236,554	235,988	-0.2	18,181	18,289	0.6
1985 3/	258,241	258,029	-0.1	240,386	240,082	-0.1	17,855	19,947	11.7
1986 3/	267,075	266,685	-0.1	249,098	248,496	-0.2	17,977	18,189	1.2
1987 3/	271,772	271,646	0.0	253,187	253,089	0.0	18,585	18,557	-0.1
1988 ...	276,225	275,792	-0.2	258,318	258,020	-0.1	17,907	17,772	-0.7
1989 ...	283,849	283,353	-0.2	265,188	264,941	-0.1	18,661	18,412	-1.3
1990 ...	288,981	293,683	1.6	268,864	273,521	1.7	20,117	20,162	0.2
1991 ...	308,669	307,628	-0.3	286,756	285,935	-0.3	21,913	21,693	-0.1
1992 ...	323,399	N/A	N/A	299,753	N/A	N/A	23,646	N/A	N/A
	Part-Time								
1975 1/	109,079	108,931	-0.1	85,120	86,269	1.4	23,959	22,662	-5.4
1976 ...	110,528	110,423	-0.1	85,282	86,564	1.7	25,246	23,859	-5.5
1977 ...	118,775	118,742	0.0	90,455	91,793	1.5	28,320	26,949	-4.8
1978 2/	NA	120,115	NA	90,152	90,160	0.0	NA	29,524	NA
1979 ...	126,428	126,391	0.0	95,572	96,381	0.9	30,856	30,010	-2.9
1980 ...	129,522	129,479	-0.0	99,276	99,931	0.7	30,246	29,548	-2.7
1981 ...	133,756	133,873	0.1	101,994	102,774	0.8	31,762	31,099	-2.1
1982 ...	138,171	138,318		105,456	106,267	0.8	32,715	32,051	-2.0
1983 ...	139,530	139,427	-0.1	106,194	106,639	0.4	33,336	32,788	-1.7
1984 3/	141,714	141,383	-0.2	108,101	108,078	0.0	33,613	33,305	-0.2
1985 3/	147,191	147,567	0.3	113,310	113,762	0.4	33,881	33,805	-0.2
1986 3/	149,367	149,892	0.4	115,136	115,964	0.7	34,231	33,928	-0.9
1987 3/	149,669	150,939	0.9	115,171	117,023	1.6	34,498	33,916	-1.7
1988 ...	149,527	150,140	0.4	115,591	116,255	0.6	33,936	33,885	-0.2
1989 ...	151,012	152,718	1.1	114,333	116,579	2.0	36,679	36,139	-1.5
1990 ...	155,365	160,379	3.2	116,047	121 273	4.5	39,318	39,106	-0.5
1991 ...	167,022	165,322	-1.0	124,540	123,426	-0.9	42,482	41,896	-1.4
1992 ...	171,998	N/A	N/A	128,039	N/A	N/A	43,959	N/A	N/A

1/ The 1976 survey also collected 1975 data from master's-granting institutions.

2/ Master's-granting institutions were not surveyed in 1978.

3/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984 through 1987. See Technical Notes for further information.

KEY:
NA = Not available
N/A = Not applicable

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

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SECTION III. LIST OF INSTITUTIONS INCLUDED IN THE FALL 1992 SURVEY

The graduate institutions included in the 1992 survey are listed in alphabetical order by State in tables III-1 and III-2. Table III-1 lists all doctorate-granting institutions in the universe and their separately reported components, with their institutional codes as assigned by the Federal Interagency Committee on Education (FICE). Table III-2 contains the same information for all master's-granting institutions in the survey universe. Institutional FICE codes are provided for the convenience of those wishing to request institutional profiles (see "General Notes," page 1), for their own or selected peer institutions. These profiles are available only at the institutional level, however; separate profiles are not available for individual components or branch campuses within an institution.

Table | *Page*

III-1. Doctorate-granting institutions in the fall 1992 survey 25

III-2. Master's-granting institutions in the fall 1992 survey 29

Table III-1. Doctorate-granting institutions in the fall 1992 survey

FICE CODE			
			Alabama
008695		L	Auburn University
			Graduate School (Main Campus)
			Graduate School at Montgomery
001051			The University of Alabama
001052			The University of Alabama at Birmingham
			Graduate School
			School of Medicine
001055			The University of Alabama in Huntsville
001057			University of South Alabama
			College of Medicine
			Graduate School
			Alaska
029094		L	University of Alaska at Fairbanks
			Arizona
001081			Arizona State University
001082			Northern Arizona University
001083		L	University of Arizona
			College of Medicine
			Graduate School
			Arkansas
001108		L	University of Arkansas
001109			University of Arkansas - Med Sci Campus
			California
001122			Biola University
011881			Calif Sch of Prof Psych - Fresno
010013			Calif Sch of Prof Psych - Los Angeles
011117			Calif Sch of Prof Psych - San Diego
009844			Calif Sch of Prof Psych-Berkeley/Alameda
001139			Calif State Univ at Long Beach
012154			California Institute of Integral Studies
001131			California Institute of Technology
000166			Charles R. Drew Univ of Medicine & Sci
001169			Claremont Univ Center & Graduate School
001200			Fuller Theological Seminary
001205			Golden Gate University
001218			Loma Linda University
			Graduate School
			School of Medicine
029225			Pacific Graduate School of Psychology
010441			RAND Graduate School of Policy Studies
001151			San Diego State University
001326			Santa Clara University
001305			Stanford University
			Graduate School
			School of Medicine
029092			The Fielding Institute
008846			The Wright Institute
001158			US International University
001310			US Naval Postgraduate School
001312		L	University of Calif at Berkeley
001313		L	University of Calif at Davis
001315		L	University of Calif at Los Angeles
			Graduate School
			School of Medicine
001316		L	University of Calif at Riverside
001317		L	University of Calif at San Diego
			Graduate School
			School of Medicine
001319		L	University of Calif at San Francisco
001320		L	University of Calif at Santa Barbara
001321		L	University of Calif at Santa Cruz
001314		L	University of California, Irvine
			College of Medicine
			Graduate School
001328			University of Southern California
			Graduate School
			School of Medicine
001329			University of the Pacific
			Colorado
001348			Colorado School of Mines
001350		L	Colorado State University
008717			University of Colorado
			Graduate School at Boulder
			Graduate School at Colorado Springs
			Graduate School at Denver
			Health Sciences Center
001371			University of Denver
001349			University of Northern Colorado
			Connecticut
008718			University of Connecticut
			Graduate School
			School of Medicine
001424			Wesleyan University
001426			Yale University
			Graduate School
			School of Medicine
			School of Nursing
			Delaware
001431		L	University of Delaware
			District of Columbia
001437			Catholic University of America
001444			George Washington University
			Graduate School
			School of Medicine and Health Sciences
001445			Georgetown University
			Graduate School
			School of Medicine
001448	H		Howard University
			College of Medicine
			Graduate School
001434			The American University
			Florida
001480	H	L	Florida A & M University
001481			Florida Atlantic University
001469			Florida Institute of Technology
009635			Florida International University
001489		L	Florida State University
001509			Nova University
003954			University of Central Florida
001535			University of Florida
			College of Medicine
			College of Nursing
			Graduate School
001536			University of Miami
			Graduate School
			School of Medicine
001537			University of South Florida
			College of Medicine
			Graduate School
			Georgia
001559	H		Clark Atlanta University
001564			Emory University
			Graduate School
			School of Medicine
008723			Georgia Institute of Technology
001574			Georgia State University
005010			Institute of Paper Science & Technology
001579			Medical College of Georgia
008724			Mercer University
			Graduate School
			School of Medicine
			Southern School of Pharmacy
029297	H		Morehouse School of Medicine
001598		L	University of Georgia
			Hawaii
001610		L	University of Hawaii at Manoa
			Graduate School
			John A. Burns School of Medicine
			Idaho
001620			Idaho State University
001626		L	University of Idaho
			Illinois
001657			Chicago College of Osteopathic Medicine
029230			Chicago School of Prof Psych
001671			De Paul University
029239			Forest Institute of Professional Psych
001691			Illinois Institute of Technology
001692			Illinois State University
001710			Loyola University of Chicago
			Grad Sch at the Medical Center
			Graduate School
			Stritch School of Medicine
001737			Northern Illinois University
001739			Northwestern University
			Graduate School
			Medical School
009800			Rush University
001758			Southern Illinois Univ at Carbondale
001659			Univ of Health Sci/The Chicago Med Sch
001775		L	Univ of Illinois at Urbana-Champaign
001774			University of Chicago
			Graduate School
			Pritzker School of Medicine
001776		L	University of Illinois at Chicago
			Indiana
001786			Ball State University
001807			Indiana State University
008731			Indiana University
			Fort Wayne Campus
			Graduate School-Bloomington
			Indiana University-Purdue University
			School of Dentistry
			School of Medicine
008732		L	Purdue University
			Graduate School

Table III-1. Doctorate-granting institutions in the fall 1992 survey

FICE CODE		
		Indiana, continued
		Purdue University Calumet
001840		University of Notre Dame
		Iowa
001869	L	Iowa State University
011113		Maharishi International University
001855		Univ of Osteopathic Med & Health Sci
001892		University of Iowa
		College of Medicine
		Graduate School
001890		University of Northern Iowa
		Kansas
001928	L	Kansas State University
029001		University of Kansas
		Graduate School
		Medical Center
001950		Wichita State University
		Kentucky
001960		Spalding University
008744	L	University of Kentucky
		College of Medicine
		Graduate School
001999		University of Louisville
		Graduate School
		School of Medicine
		Louisiana
008745	L	Louisiana State University System
		Graduate School - Univ of New Orleans
		Medical Center at New Orleans
		School of Medicine in Shreveport
		The Graduate School in Baton Rouge
002008		Louisiana Tech University
002020		Northeast Louisiana University
002029		Tulane University
		Graduate School
		School of Medicine
		School of Public Health & Tropical Med
002031		University of Southwestern Louisiana
002032	H	Xavier University
		Maine
002053	L	University of Maine
002050		University of New England
		Col of Professional & Continuing Studies
		College of Osteopathic Medicine
		Maryland
002077		Johns Hopkins University
		Graduate School
		School of Hygiene and Public Health
		School of Medicine
029169		Uniformed Serv Univ of the Hlth Sciences
002105	L	University of Maryland - Baltimore Cnty
002103	L	University of Maryland - College Park
002106	H	University of Maryland Eastern Shore
002104	L	University of Maryland at Baltimore
		Massachusetts
002128		Boston College
002130		Boston University
		Graduate School
		School of Dentistry
		School of Medicine
		School of Public Health
002133		Brandeis University
002139		Clark University
002146		Emerson College
002155		Harvard University
		Graduate School of Arts & Sciences
		Harvard Medical School
		School of Public Health
002165		Mass College of Pharmacy/Allied Health
002178	L	Massachusetts Institute of Technology
002199		Northeastern University
002209		Smith College
002219		Tufts University
		Graduate School
		Sackler Sch of Grad Biomedical Sciences
		School of Medicine
		School of Nutrition
008755	L	University of Massachusetts
		Graduate School at Amherst
		Graduate School at Boston
		School of Medicine at Worcester
002161		University of Massachusetts Lowell
002230		Woods Hole Oceanographic Institution
002233		Worcester Polytechnic Institute
		Michigan
002238		Andrews University
002243		Central Michigan University
002290	L	Michigan State University
002292		Michigan Technological University
002307		Oakland University
002323		University of Detroit Mercy
009091		University of Michigan
		Graduate School at Ann Arbor
		Graduate School at Dearborn
		Medical School at Ann Arbor
002329		Wayne State University
		Graduate School
		School of Medicine
002330		Western Michigan University
		Minnesota
010337		Mayo Graduate School of Medicine
008761	L	University of Minnesota
		Duluth School of Medicine
		Graduate School at Duluth
		Graduate School at Minneapolis
		Minneapolis Medical School
		Mississippi
002423	L	Mississippi State University
008764		University of Mississippi
		Graduate School
		School of Medicine
002441		University of Southern Mississippi
		Missouri
002477		Kirksville College of Osteopathic Med
008766		St. Louis University
		Graduate School
		School of Medicine
002474		The University of Health Sciences
002516	L	University of Missouri - Columbia
		Graduate School
		School of Medicine
002518	L	University of Missouri - Kansas City
002517	L	University of Missouri - Rolla
002519	L	University of Missouri - St Louis
002520		Washington University
		Graduate School
		School of Medicine
		Montana
002532	L	Montana State University
002536		University of Montana
		Nebraska
002542		Creighton University
		Graduate School
		School of Medicine
002565		University of Nebraska - Lincoln
006895		University of Nebraska Medical Center
		Nevada
002568	L	University of Nevada at Reno
		Graduate School
		School of Medical Sciences
		New Hampshire
002573		Dartmouth College
		Graduate School
		School of Medicine
002589	L	University of New Hampshire
		New Jersey
008770		Fairleigh Dickinson University
002621		New Jersey Institute of Technology
002627		Princeton University
008771	L	Rutgers the State University
		Graduate School at Camden
		Graduate School at New Brunswick
		Graduate School at Newark
		School of Criminal Justice
002632		Seton Hall University
002639		Stevens Institute of Technology
002620		Univ of Med and Dentistry of New Jersey
		Grad Sch of Biomed Sci/NJ Med School
		New Jersey Medical School at Newark
		New Jersey School of Osteopathic Med
		Robert Wood Johnson Medical School
		New Mexico
002654		New Mexico Institute of Mining and Tech
008773	L	New Mexico State University
002663		University of New Mexico
		Graduate School
		School of Medicine

Table III-1. Doctorate-granting institutions in the fall 1992 survey

FICE CODE		
		New York
002666		Adelphi University
002887		Albany Medical College
002668		Alfred University
004063		CUNY Graduate School and Univ Center
007022		CUNY Herbert H. Lehman College
007026		CUNY Mt. Sinai Sch of Medicine
002699		Clarkson University
002707		Columbia Univ in the City of New York
		College of Physicians and Surgeons
		Graduate School
003979		Columbia University Teachers College
008779	L	Cornell University
		Graduate School
		Graduate School of Medical Sciences
		Medical College
002722		Fordham University
002732		Hofstra University
008780		Long Island University
		Brentwood Center
		Brooklyn Center
		C. W. Post Center
		Rockland Campus
		Westchester Center
002780		New School for Social Research
008782		New York Institute of Technology
		New York College of Osteopathic Medicine
002784		New York Medical College
002785		New York University
		Graduate School
		School of Medicine
		Wagner Graduate School of Public Service
008784		Pace University
002796		Polytechnic University
002803		Rensselaer Polytechnic Institute
002807		Rockefeller University
002835		SUNY - Albany
002836		SUNY - Binghamton
009554		SUNY - Buffalo
		Graduate School
		School of Medicine
002851		SUNY - Coll of Env Science and Forestry
002839		SUNY - Health Sci Ctr at Brooklyn
002840		SUNY - Health Sci Ctr at Syracuse
009555		SUNY - Stony Brook
		Graduate School
		School of Medicine
009929		SUNY College of Optometry
002823		Saint John's University
008789		Syracuse University
002889		Union College
002894		University of Rochester
		Graduate School
		School of Medicine and Dentistry
002903		Yeshiva University
		Albert Einstein College of Medicine
		Graduate School
		North Carolina
002920		Duke University
		Graduate School
		School of Medicine
002923		East Carolina University
		Graduate School
		School of Medicine
002972	L	North Carolina State Univ at Raleigh
002974		Univ of North Carolina at Chapel Hill
		Graduate School
		School of Medicine
002976		Univ of North Carolina at Greensboro
002978		Wake Forest University
		Bowman Gray School of Medicine
		Graduate School
		North Dakota
009266	L	North Dakota State University
008794		University of North Dakota
		Ohio
003009		Air Force Institute of Technology
008795		Antioch University
008796		Bowling Green State University
003024		Case Western Reserve University
		Graduate School
		School of Medicine
003032		Cleveland State University
008799		Kent State University
007737		Medical College of Ohio at Toledo
008800		Miami University
029045		NE Ohio Universities College of Medicine
008803		Ohio University
		College of Osteopathic Medicine
		Graduate College
008802	L	The Ohio State University
		College of Medicine
		Graduate School
010923		Union Institute
012310		University of Akron
		Ohio, continued
008805		University of Cincinnati
		College of Medicine
		Graduate School
003127		University of Dayton
003131		University of Toledo
009167		Wright State University
		Oklahoma
008806	L	Oklahoma State University
008807		University of Oklahoma
		Graduate College
		Health Sciences Center
003185		University of Tulsa
		Oregon
008856		Oregon Grad Inst of Science & Technology
004882		Oregon Health Sciences University
003210	L	Oregon State University
003216		Portland State University
003223		University of Oregon
		Pennsylvania
003237		Bryn Mawr College
003242		Carnegie-Mellon University
003256		Drexel University
003258		Duquesne University
003271		Hahnemann University
008810		Indiana University of Pennsylvania
003289		Lehigh University
008813	L	Pennsylvania State University
		College of Medicine
		Graduate School
003352		Phila College of Osteopathic Medicine
003353		Philadelphia Coll of Pharmacy and Sci
003371		Temple University
		Graduate School
		School of Medicine
		School of Pharmacy
003398		The Medical College of Pennsylvania
003278		Thomas Jefferson University
003378		University of Pennsylvania
		Graduate School
		School of Medicine
008815		University of Pittsburgh
		Graduate School
		School of Medicine
003388		Villanova University
		Rhode Island
003401		Brown University
003406		Providence College
003414	L	University of Rhode Island
		South Carolina
003425	L	Clemson University
003438		Medical University of South Carolina
008819		University of South Carolina
		Graduate School
		Medical School
		South Dakota
003470		South Dakota School of Mines and Tech
003471	L	South Dakota State University
003474		University of South Dakota
		Graduate School
		School of Medicine
		Tennessee
003487		East Tennessee State University
003506	H	Meharry Medical College
003509		Memphis State University
003523		Tennessee Technological University
003530	L	University of Tennessee at Knoxville
006725	L	University of Tennessee, Memphis
003535		Vanderbilt University
		Graduate School
		School of Medicine
		Texas
004948		Baylor College of Dentistry
004949		Baylor College of Medicine
006967		Baylor University
003565		East Texas State University
003581		Lamar University-Beaumont
003604		Rice University
003606		Sam Houston State University
003613		Southern Methodist University
003624		Stephen F. Austin State University
003632	L	Texas A & M University
003636		Texas Christian University
009768		Texas College of Osteopathic Medicine
003644		Texas Tech University
		Graduate School

Table III-1. Doctorate-granting institutions in the fall 1992 survey

FICE CODE		
		Texas, continued
		Health Sciences Center
003646		Texas Woman's University
003659		Univ of Texas Hlth Sci Ctr San Antonio
011618		Univ of Texas Hlth Sci Ctr at Houston
003657		Univ of Texas MD Anderson Cancer Center
004952		Univ of Texas Med Branch at Galveston
003660		Univ of Texas SW Medical Ctr at Dallas
003656		Univ of Texas at Arlington
003652		University of Houston-University Park
003594		University of North Texas
003658		University of Texas at Austin
009741		University of Texas at Dallas
003661		University of Texas at El Paso
		Utah
012305		Brigham Young University
003675		University of Utah
		Graduate School
		School of Medicine
003677	L	Utah State University
		Vermont
003696	L	University of Vermont
		College of Medicine
		Graduate School
		Virginia
008828		College of William and Mary
010338		Eastern Virginia Medical School
003749		George Mason University
003714	H	Hampton University
003717		Institute of Textile Technology
003728		Old Dominion University
003745		University of Virginia
		Graduate School
		School of Medicine
003735		Virginia Commonwealth University
		Graduate School
		Medical College of Virginia
003754	L	Virginia Polytechnic Inst and State Univ

FICE CODE		
		Washington
003798		University of Washington
		Graduate School
		School of Medicine
		School of Public Health and Comm Med
003800	L	Washington State University
		West Virginia
003815		Marshall University
		Graduate School
		School of Medicine
011245		West Virginia School of Osteopathic Med
003827	L	West Virginia University
		Graduate School
		School of Medicine
		Wisconsin
003863		Marquette University
008296		Medical College of Wisconsin
003895	L	University of Wisconsin - Madison
		Graduate School
		Medical School
003896		University of Wisconsin - Milwaukee
		Wyoming
003932	L	University of Wyoming
		OUTLYING AREAS
		Puerto Rico
010724		Caribbean Center for Advanced Studies
003936		Catholic University of Puerto Rico
029268		Ponce School of Medicine
003944	L	Univ of Puerto Rico Mayaguez Campus
007108	L	Univ of Puerto Rico Rio Piedras Campus
003945	L	University of Puerto Rico Med Sci Campus

NOTE: H = Historically Black institution
L = Land Grant institution

Table III-2. Master's-granting institutions in the fall 1992 survey

FICE CODE			
			Alabama
001002	H	L	Alabama A & M University
001005	H		Alabama State University
001020			Jacksonville State University
001049			Troy State University in Montgomery
001050	H		Tuskegee University
001004			University of Montevallo
			Alaska
029095			University of Alaska Anchorage
029096			University of Alaska Southeast
			Arkansas
008701			Arkansas State University
001101			University of Arkansas at Little Rock
001092			University of Central Arkansas
			California
001117			Azusa Pacific University
001143			Calif Poly State Univ at San Luis Obispo
001144			Calif State Polytechnic Univ at Pomona
001141			Calif State Univ at Dominguez Hills
001137			Calif State Univ at Fullerton
001138			Calif State Univ at Hayward
001140			Calif State Univ at Los Angeles
001142			Calif State Univ at San Bernardino
001146			Calif State University at Chico
001147			Calif State University at Fresno
001153			Calif State University at Northridge
001150			Calif State University at Sacramento
001157			Calif State University, Stanislaus
007993			California State Univ - Bakersfield
001164			Chapman University
001196			Dominican College of San Rafael
001171			Harvey Mudd College
001149			Humboldt State University
004484			John F Kennedy University
011649			Loyola Marymount University
011460			National University
001249			Occidental College
001257			Pacific States University
001264			Pepperdine University
001154			San Francisco State University
001155			San Jose State University
001156			Sonoma State University
001216			University of La Verne
001322			University of Redlands
010395			University of San Diego
001325			University of San Francisco
008716			West Coast University
			Colorado
023562			National Technological University
			Connecticut
001378			Central Connecticut State University
001379			Connecticut College
001402			Quinnipiac College
001406			Southern Connecticut State University
001409			St. Joseph College
002804			The Hartford Graduate Center
001414			Trinity College
001416			University of Bridgeport
001422			University of Hartford
001397			University of New Haven
001380			Western Connecticut State University
			Delaware
001428	H	L	Delaware State College
			District of Columbia
001443			Gallaudet University
029100	H	L	University of the District of Columbia
			Florida
003955			University of West Florida
			Georgia
001552			Augusta College
001566	H	L	Fort Valley State College
001602			Georgia College
001572			Georgia Southern University
001599			Valdosta State College
001601			West Georgia College
			Illinois
001641			Bradley University
001694			Chicago State University
001674			Eastern Illinois University
009145			Governors State University
001693			Northeastern Illinois University
001749			Roosevelt University
			Illinois, continued
009333			Sangamon State University
001759			Southern Illinois Univ at Edwardsville
001780			Western Illinois University
			Indiana
001788			Butler University
001822			Indiana Wesleyan University
001830			Rose-Hulman Institute of Technology
001832			Saint Francis College
001795			University of Evansville
001842			Valparaiso University
			Iowa
001860			Drake University
001873			Loras College
001876			Teikyo Marycrest College
			Kansas
001927			Emporia State University
001915			Fort Hays State University
001926			Pittsburg State University
001949			Washburn University of Topeka
			Kentucky
001963			Eastern Kentucky University
001976			Morehead State University
001977			Murray State University
002002			Western Kentucky University
			Louisiana
002006	H		Grambling State University
002016			Loyola University in New Orleans
002017			McNeese State University
002005			Nicholls State University
002021			Northwest State University
002024			Southeastern Louisiana University
002025	H	L	Southern University A & M College
			Maryland
002068	H		Coppin State College
002072			Frostburg State University
002076			Hood College
002078			Loyola College
002083	H		Morgan State University
002099			Towson State University
002102			University of Baltimore
002108			Washington College
			Massachusetts
002114			American International College
002117			Anna Maria College
002118			Assumption College
002183			Bridgewater State College
002185			Framingham State College
029365			MGH Institute of Health Professions
002192			Mount Holyoke College
002188			Salem State College
002210			University of Massachusetts Dartmouth
002226			Western New England College
002229			Williams College
002190			Worcester State College
			Michigan
002259			Eastern Michigan University
002268			Grand Valley State University
002301			Northern Michigan University
			Minnesota
002336			Bemidji State University
002360			Mankato State University
002367			Moorhead State University
002380			Saint Mary's College of Minnesota
002377			St. Cloud State University
			Mississippi
002410	H		Jackson State University
002422			Mississippi University for Women
			Missouri
002454			Central Missouri State University
002479	H	L	Lincoln University
002495			Northeast Missouri State University
002496			Northwest Missouri State University
002501			Southeast Missouri State University
002503			Southwest Missouri State University
			Montana
002531			Montana College Mineral Sci & Technology

Table III-2. Master's-granting institutions in the fall 1992 survey

FICE CODE		
		Nebraska
002554	L	University of Nebraska - Omaha
002551		University of Nebraska at Kearney
		Nevada
002569		University of Nevada at Las Vegas
		New Hampshire
002586		Rivier College
		New Jersey
002603		Drew University
002622		Kean College of New Jersey
002616		Monmouth College
002617		Montclair State College
002642		Trenton State College
002625		William Paterson College
		New Mexico
008772		Eastern New Mexico University
002653		New Mexico Highlands University
		New York
004766		CUNY Bernard Baruch College
002687		CUNY Brooklyn College
002688		CUNY City College
029040		CUNY College of Staten Island
002689		CUNY Hunter College
002693		CUNY John Jay College of Crim Justice
002690		CUNY Queens College
002704		College of New Rochelle
002705		College of St Rose
002710		Cooper Union
002737		Iona College
002739		Ithaca College
002758		Manhattan College
002765		Marist College
002788		Niagara University
002798		Pratt Institute
002806		Rochester Institute of Technology
008786		Russell Sage College
002841		SUNY College at Brockport
002842		SUNY College at Buffalo
002843		SUNY College at Cortland
002844		SUNY College at Fredonia
002845		SUNY College at Geneseo
002846		SUNY College at New Paltz
002847		SUNY College at Oneonta
002848		SUNY College at Oswego
002849		SUNY College at Plattsburgh
002850		SUNY College at Potsdam
006792		SUNY College of Technology at Utica/Rome
002813		Sarah Lawrence College
002817		St Bonaventure University
002895		Vassar College
002899		Wagner College
		North Carolina
002906		Appalachian State University
002905	H L	North Carolina A & T State University
002950	H	North Carolina Central University
002975		Univ of North Carolina at Charlotte
002984		University of North Carolina/Wilmington
002981		Western Carolina University
		Ohio
003050		John Carroll University
003144		Xavier University
003145		Youngstown State University
		Oklahoma
003154		East Central University
003161		Northeastern State University
003181		Southwestern Oklahoma State University
		Oregon
003212		Pacific University
003219		Southern Oregon State College
003224		University of Portland
		Pennsylvania
003315		Bloomsburg University of Pennsylvania
003238		Bucknell University
003316		California University of Pennsylvania
009234		Clarion University of Pennsylvania
003320		East Stroudsburg Univ of Pennsylvania
003321		Edinboro University of Pennsylvania
003266		Gannon University
003322		Kutztown University of Pennsylvania
003324		Mansfield University of Pennsylvania
003296		Marywood College
003325		Millersville University of Pennsylvania
		Pennsylvania, continued
003326		Shippensburg University of Pennsylvania
003327		Slippery Rock University of Pennsylvania
003367		St Joseph's University
003370		Swarthmore College
003384		University of Scranton
003328		West Chester University of Pennsylvania
003313		Widener University
003394		Wilkes University
		Rhode Island
003407		Rhode Island College
		South Carolina
003434		Furman University
003428		University of Charleston, South Carolina
003456		Winthrop College
		Tennessee
003478		Austin Peay State University
003490	H	Fisk University
003510		Middle Tennessee State University
003522	H L	Tennessee State University
003529	L	University of Tennessee at Chattanooga
		Texas
003537		Abilene Christian University
003541		Angelo State University
011161		Corpus Christi State University
003578		Incarnate Word College
003592		Midwestern State University
003630	H L	Prairie View A & M University
003615		Southwest Texas State University
003623		St. Mary's University
003625		Sul Ross State University
003631		Tarleton State University
003639		Texas A & I University
003642	H	Texas Southern University
003599		The University of Texas - Pan American
003647		Trinity University
011854		University of Central Texas
013231		University of Houston - Victoria
011711		University of Houston at Clear Lake City
010115		University of Texas at San Antonio
029164		University of Texas at Tyler
009930		University of Texas of the Permian Basin
003665		West Texas State University
		Vermont
003686		Goddard College
003690		Marlboro College
003691		Middlebury College
		Virginia
003715		Hollins College
003721		James Madison University
003732		Radford University
003744		University of Richmond
003764	H L	Virginia State University
		Washington
003771		Central Washington University
003775		Eastern Washington University
003778		Gonzaga University
003785		Pacific Lutheran University
003794		Saint Martin's College
003790		Seattle University
003799		Walla Walla College
003802		Western Washington University
003804		Whitworth College
		West Virginia
003818		University of Charleston
006869		West Virginia Graduate College
003825		West Virginia Institute of Technology
		Wisconsin
003868		Milwaukee School of Engineering
003917		University of Wisconsin - Eau Claire
003899		University of Wisconsin - Green Bay
003919		University of Wisconsin - La Crosse
009630		University of Wisconsin - Oshkosh
003921		University of Wisconsin - Platteville
003923		University of Wisconsin - River Falls
003924		University of Wisconsin - Stevens Point
003915		University of Wisconsin - Stout
003926		University of Wisconsin - Whitewater

Table III-2. Master's-granting institutions in the fall 1992 survey

FICE CODE		FICE CODE	
	OUTLYING AREAS		
	Guam		
003935	University of Guam		

NOTE: H = Historically Black institution
L = Land Grant institution

SECTION IV. INSTRUCTIONS, SURVEY INSTRUMENTS, AND SUMMARIES

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Instructions and survey instruments

Instructions for Survey Coordinator and List of Departments and Programs (Form 811) 34

Instructions for the Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 1992 (Form 812) 38

Department or Program Data Sheet (Form 812) 40

Crosswalk Between NSF Discipline Codes and the NCES Classification of Instructional Programs 42

"How To Avoid Common Errors" insert 44

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NSF FORM 811
OCTOBER 1992

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 1992

FORM APPROVED
OMB NO. 3145-0062
APPR. EXP. 11/1/96

INSTRUCTIONS FOR SURVEY COORDINATOR

PAGE 1 OF 4

INSTITUTION: 001083-0 University of Arizona
Graduate School

1. Please review the list of departments/programs printed on the following pages. Add any newly formed graduate science or engineering (S&E) departments or programs in the spaces provided at the end of the list and note any name changes or reorganizations where they occur. Because of special interest at NSF and NIH, please separate the following: computer science from mathematics; all engineering fields by discipline (electrical, mechanical, etc.); and clinical psychology from all other psychology programs. Please submit separate survey Forms 812 for each such program.

2. Please cross out discontinued or non-S&E programs on the departmental/program list, and indicate the last year that each discontinued program had students. However, programs which do not have graduate students or postdoctorates in Fall 1992 but may have them in the future, should NOT be crossed out; place a check in column (6) of the list instead of submitting a Form 812 for such departments/programs.

3. The enclosed Crosswalk shows the 3-digit NSF code and comparable NCES discipline codes for each science and engineering field. Please review the first 3 digits of the codes in column (2) of your list to verify that each department/program has been assigned to the correct discipline. If you do not agree with the code in column (2), please note the Crosswalk's discipline code that most closely corresponds to your department/program.

4. (a) In MEDICAL SCHOOLS, departments/programs followed by a single asterisk (*) include the indented sections/specialties listed beneath them. These sections/specialties may be without organizational autonomy; however, because of special interest at NIH, please submit separate data for each section/specialty. In addition, please make sure that no duplicate data are reported for sections/specialties and their parent programs. (b) In GRADUATE SCHOOLS, departments followed by an asterisk (*) include the indented specific degree-programs listed beneath them. Please submit separate Forms 812 for each specific degree-program.

5. Please distribute the enclosed Forms 812 as soon as possible to all listed and newly formed departments/programs if data cannot be obtained from your centralized files. The Forms 812 provide instructions and definitions for all requested data items. Please follow these guidelines when completing the Forms 812 (survey questionnaires).

6. Please review the Forms 812 for completeness and consistency, and verify or supply the highest degree offered by each department/program. Please check this year's data against the previous year's data shown on the departmental/program list and indicate the validity of any large year-to-year changes in the "Comments" section below or on the individual Forms 812.

7. Please do NOT submit responses for any graduate departments in education, law, humanities, music, the arts, physical education, library sciences, and all other non-S&E fields.

8. Please return one copy of the Form 811 (this form) along with all completed Forms 812 by JANUARY 31, 1993 to:

   National Science Foundation
   Division of Science Resources Studies
   Suite 965
   4201 Wilson Boulevard
   Arlington, VA 22230

   Please keep a copy of the Form 811 and the Forms 812 for your records.

9. Care should be taken to submit as complete and as accurate a report as possible in order to minimize follow-up procedures and to make more timely statistics available. If you have any questions concerning your response, please call Dr. J. G. Huckenpahler at the National Science Foundation's, Division of Science Resources Studies at (703) 306-1774.

SURVEY COORDINATOR:
NAME: Frank Antinoro
TITLE: Office of Management Analysis & Res
ADDRESS: University of Arizona

116 Admin Bldg
Tucson, Arizona 85721
TELEPHONE: (602) 621-7807

____
SIGNATURE OF SURVEY COORDINATOR

____
DATE COMPLETED

COMMENTS: ______________________________

NSF FORM 811
OCTOBER 1992

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 1992

FORM APPROVED
OMB NO. 3145-0062
APPR. EXP. 11/1/96

LIST OF DEPARTMENTS AND PROGRAMS

INSTITUTION: 001083-0 University of Arizona
Graduate School

1991 RESPONSE CODE **	DEPARTMENT CODE ***	SCIENCE OR ENGINEERING DEPARTMENTS OR PROGRAMS	DEPARTMENTAL DEGREE LEVEL	REPORTED FOR FALL 1991: FULL TIME	PART TIME	POST-DOCS.	CHECK HERE IF NO STUDENTS AND NO POSTDOCTORATES
(1)	(2)	(3)	(4)	(5)			(6)
3	10102	Aerospace & Mechanical Engineering	DOCTORATE	81	17	2	
3	10201	Agricultural and Biosystems Engineering	DOCTORATE	31	1	0	
1	10401	Chemical Engineering	DOCTORATE	35	0	1	
1	10502	Civil Engineering	DOCTORATE	80	0	1	
1	10601	Electrical & Computer Engineering	DOCTORATE	242	66	0	
1	10801	Systems & Industrial Engineering	DOCTORATE	61	15	1	
1	10901	Engineering Mechanics	DOCTORATE	9	0	0	
1	11001	Materials Science & Engineering	DOCTORATE	55	5	6	
1	11104	Mining Engineering	DOCTORATE	9	5	0	
1	11105	Geological Engineering	DOCTORATE	16	6	0	
1	11201	Nuclear & Energy Engineering	DOCTORATE	17	13	0	
1	20101	Astronomy/Steward Observatory	DOCTORATE	32	0	11	
1	20102	Planetary Science/Lunar & Planetary Lab	DOCTORATE	37	0	35	
1	20201	Chemistry	DOCTORATE	124	1	43	
1	20301	Physics	DOCTORATE	118	0	14	
1	20302	Optical Sciences Center	DOCTORATE	133	8	8	
1	30101	Atmospheric Sci's & Atmospheric Physics	DOCTORATE	25	2	0	
1	30201	Hydrology & Water Resources	DOCTORATE	103	0	0	
1	30202	Geosciences	DOCTORATE	91	34	4	
1	30203	Arid Lands Resource Sciences	DOCTORATE	8	0	0	
1	30401	Renewable Natural Resources	DOCTORATE	97	61	1	
1	40101	Computer Science	DOCTORATE	98	7	2	
1	40102	Management Information Systems	DOCTORATE	106	20	0	
1	40203	Mathematics	DOCTORATE	69	35	4	
1	40204	Applied Mathematics	DOCTORATE	65	6	0	
1	40301	Statistics	MASTER'S	4	2	0	
1	50112	Animal Sciences	DOCTORATE	22	2	9	
1	50115	Soil & Water Science	DOCTORATE	38	0	0	
1	60601	Plant Pathology	DOCTORATE	9	0	2	
1	60603	Plant Sciences	DOCTORATE	35	5	12	
3	60702	Molecular and Cellular Biology	DOCTORATE	43	0	6	
1	60802	Ecology and Evolutionary Biology	DOCTORATE	63	0	4	
1	60901	Entomology	DOCTORATE	17	3	16	
1	61001	Genetics	DOCTORATE	10I	0I	0I	
1	61201	Nutrition & Food Science (Food Science)	MASTER'S	2	1	0	
1	61202	Committee on Nutritional Sciences (Ph.D)	DOCTORATE	48	6	0	
1	61203	Nutrition & Food Science (Dietetics)	MASTER'S	4	4	0	
3	61204	Nutrition & Food Sci (Nutritional Sci's)	MASTER'S	7	1	0	
1	61402	Pharmacology and Toxicology	DOCTORATE	73	0	33	
1	71901	Nursing	DOCTORATE	43	108	5	

(CONTINUED ON NEXT PAGE)

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NSF FORM 811
OCTOBER 1992

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 1992

FORM APPROVED
OMB NO. 3145-0062
APPR. EXP. 11/1/96

LIST OF DEPARTMENTS AND PROGRAMS

PAGE 3 OF 4

INSTITUTION: 001083-0 University of Arizona
Graduate School

1991 RESPONSE CODE **	DEPARTMENT CODE ***	SCIENCE OR ENGINEERING DEPARTMENTS OR PROGRAMS	DEPARTMENTAL DEGREE LEVEL	REPORTED FOR FALL 1991: FULL TIME	PART TIME	POST-DOCS.	CHECK HERE IF NO STUDENTS AND NO POSTDOCTORATES
(1)	(2)	(3)	(4)		(5)		(6)
1	72001	Pharmaceutical Sciences	DOCTORATE	23	2	3	___
1	72002	Pharmacy Practice	DOCTORATE	7	0	3	___
3	72301	Speech and Hearing Sciences	DOCTORATE	66	1	3	___
1	80101	Psychology	DOCTORATE	113	0	3	___
3	90101	Agricultural Economics	DOCTORATE	26	0	1	___
1	90201	Anthropology	DOCTORATE	120	72	0	___
1	90301	Economics	DOCTORATE	44	0	0	___
1	90302	Mineral Economics	DOCTORATE	13	8	0	___
1	90402	Geography and Regional Development	DOCTORATE	39	3	0	___
1	90601	Linguistics	DOCTORATE	32	0	2	___
1	90701	Political Science	DOCTORATE	70	0	0	___
1	90802	Sociology	DOCTORATE	45	7	0	___
				----	----	----	
TOTAL, ALL DEPARTMENTS OR PROGRAMS:				2758	527	235	

ADDITIONAL DEPARTMENTS OR PROGRAMS FOR FALL 1992:
Please fill in columns (3), (4), and if applicable, column (6). Using the NSF crosswalk provided, please indicate in column (2) the NSF discipline code that you think is most appropriate, or provide a brief description of the department/program's major area of concentration.

** 1991 RESPONSE CODE MEANINGS:

1 -- Matched, Data Present
3 -- New, Data Present

*** THE FIRST THREE DIGITS OF THE DEPARTMENT CODE ARE A FIELD OF SCIENCE & ENGINEERING CODE; A LIST OF THESE CODES IS ENCLOSED.

NOTE: This information is solicited under the authority of the National Science Foundation Act of 1950 as amended. All information you provide will be used for statistical purposes only. Your response is entirely voluntary and your failure to provide some or all of the information will in no way adversely affect your institution.

NSF FORM 811
OCTOBER 1992

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 1992

FORM APPROVED
OMB NO. 3145-0062
APPR. EXP. 11/1/96

LIST OF SURVEY COORDINATORS

INSTITUTION: 001083-0 University of Arizona
Graduate School

For your information, all GRADUATE STUDENT SURVEY COORDINATORS on record at your institution are listed below.

To avoid duplicate reporting of departments or programs, please be sure that joint departments or programs have been counted in only one school. In cases where you believe there may be a joint department or program between a graduate and medical school, the Form 812 should be completed by the medical school and the department should be recorded on the medical school's form 811. Please confirm this with the other coordinators, if necessary.

Please check with the other survey coordinators that each eligible department in your institution has been covered by one of the coordinators listed below.

001083-5
NAME: Christopher A. Leadem, Ph.D.
TITLE: Associate Dean, Student Affairs
ADDRESS: University of Arizona
College of Medicine
1501 N Campbell Ave
Tucson, Arizona 85724
TELEPHONE: (602) 626-6216

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INSTRUCTIONS

FOR THE NSF SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 1992

PURPOSE OF THE SURVEY

The survey provides a comprehensive picture of the training of future scientists and engineers in the Nation's graduate schools. Data are used by Congress and the executive branch during budget preparation, and by State government agencies and other analysts to assess the future supply of science and engineering (S&E) personnel.

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information provided will be used for statistical purposes only. Response is entirely voluntary and failure to provide some or all of the information will in no way adversely affect your institution.

The average time required for questionnaire completion is two hours. Response burden comments should be directed to Herman Fleming at NSF, (202) 357-9520.

Students included in this survey

Count as graduate students persons enrolled for credit in any S&E master's or Ph.D. degree program in fall 1992. Report M.D., D.O., D.V.M., or D.D.S. candidates, interns, and residents in Items 5 through 7 **only** if they are concurrently working for an S&E master's or Ph.D. or are enrolled in a joint medical/Ph.D. program. Individuals who already hold graduate or medical degrees and are working on another master's or Ph.D. degree are considered graduate students (Items 5 through 7), not postdoctorates (Item 8).

Include S&E students performing thesis or dissertation research away from the campus (for example, at Government- and contractor-owned facilities) in the United States as long as they are enrolled for credit in an advanced-degree program.

All data should be reported in terms of headcounts, not full-time equivalents (FTEs).

Students excluded from this survey

Exclude students enrolled in a foreign country (at a branch or extension center), as well as non-matriculated students.

Students enrolled in multiple departments/institutions

A student should be reported in only **one** department. Students enrolled in interdisciplinary/interinstitutional programs should be counted only once, by their "home" department and institution.

INCOMPLETE DATA

Please write "unavailable" or "unknown" in data cells as applicable. On this form, "N/A" means "not applicable." Data cells left blank are presumed to be zeroes.

ITEM 5: FULL-TIME STUDENTS

Report the total number of full-time degree-seeking students in line 6(K). Then, in lines 1-6, count each full-time student **only once** by **largest** source of support so that all columns and rows in Item 5 sum to the full-time total in line 6(K). In Item 5, count only graduate students pursuing an S&E degree according to a full-time schedule; this may include any combination of study, teaching, and research, depending on your institution's policy and definition of full-time status. For example, many institutions base full-time status on the number of credit hours taken; others calculate full-time according to the amount of fees paid by the student.

Mechanisms of Support – Lines (1) through (5)

A **fellowship,** line (1), is any competitive award (often from a national competition) made to a student which requires no work of the recipient. A **traineeship,** line (2), is an educational award given to a student selected by the university. An **assistantship** should be classified as **research,** line (3), or **teaching,** line (4), depending on assigned duties; e.g., a student devoting most of his/her time to teaching should be reported on line (4). All other full-time students, including members of the armed forces whose tuition is paid by the Department of Defense, and self-supported students, should be reported on line (5).

Federal sources of support – Columns (A) through (F)

Department of Defense (DOD) - Column (A): Sources include the Departments of the Army, Navy, or Air Force, as well as programs within the Office of the Secretary of Defense. Students receiving their main support from the Veterans Administration under the G.I. Bill should be reported under column (F), "Other Federal sources."

Department of Health and Human Services (HHS) – Columns (B) and (C): Report students with support from the institutes or divisions of the National Institutes of Health (NIH) under column (B); support from all other components of HHS should be reported in column (C). Refer to the organizational roster under "Definitions."

National Science Foundation (NSF) – Column (D): Report students receiving NSF graduate fellowships and minority fellowships, as well as those supported under NSF research grants.

U.S. Department of Agriculture (USDA) – Column (E): Include research assistants working on projects financed out of Hatch, McIntyre-Stennis, or Smith-Lever formula funds, competitive research grants, and institution fellowship/training grants.

Other Federal Sources – Column (F): Report students receiving support from Federal agencies other than those listed in columns (A) through (E), such as the Fulbright program, the G.I. Bill, Department of Education, and Department of Energy programs. Students primarily supported by Federal loans should be reported in column (J): self-supported students.

Non-Federal Sources of Support – Columns (G) through (I)

Institutional support – Column (G): Report students supported from YOUR institution, including those receiving tuition waivers. State and local government support should also be reported in this column. Students primarily supported with funds from the Federal government, such as training grants, however, should be reported under the appropriate Federal agency.

Foreign sources – Column (H): Report students supported from any non-U.S. source, such as foreign governments, industrial firms, or specialized agencies of the United Nations.

Other U.S. sources – Column (I): Report students supported from nonprofit institutions, private industry, and all other non-Federal U.S. sources not included in columns (G) or (J).

Self-supported students – (Column J): Report both foreign and U.S. citizen students whose largest source of support comes from ANY loans (including Federal loans) or from personal or family financial contributions. **These students must be included in the full-time total, line 6(K).**

Women – Line (7)

Report all female students by the source of their primary support. In each column, data on line (7) should not exceed the total on line (6).

First-year students – Lines (8) and (9)

A first-year student has enrolled for the first time in the program in which he/she is pursuing a degree as of the beginning of the fall term in 1992. All other students should be considered to be beyond their first year.

ITEM 6: PART-TIME STUDENTS

Report all part-time students in Item 6, regardless of their source of support. Part-time students are pursuing an S&E graduate degree but NOT on a full-time schedule. Consider students part-time according to your own institution's definition of part-time status.

ITEM 7: CITIZENSHIP AND RACIAL/ETHNIC BACKGROUND OF U.S. CITIZENS

Report all U.S. citizens and permanent residents in columns (A) through (F), and count each student only once according to his/her racial/ethnic category as defined by the Bureau of the Census, listed under "Definitions."

Count foreign students, i.e., those holding temporary visas, only **once** in column (G), regardless of race/ethnicity. Native residents of a U.S. possession and applicants for U.S. citizenship holding green cards, however, should be reported as U.S. citizens.

Total full- and part-time enrollments reported in Item 7 should match those reported in Items 5 and 6, respectively.

ITEM 8: POSTDOCTORATES AND NONFACULTY RESEARCH STAFF WITH DOCTORATES

Postdoctorates – Columns (A) through (F): Include individuals with S&E Ph.D.'s, M.D.'s, D.D.S.'s or D.V.M.'s (including foreign degrees equivalent to U.S. doctorates) who devote their **primary effort to their own research training through research activities or study** in the department under temporary appointments carrying no academic rank. These individuals may contribute to the academic program through seminars, lectures, or working with graduate students. Such postdoctorates may have different titles at different institutions, e.g., "Postdoctoral Scholar," "Research Associate," "Postdoctoral Fellow," or "Postgraduate Researcher." Exclude, however, clinical fellows and those with appointments in residency training programs in medical and health professions, **unless research training under the supervision of a senior mentor is the primary purpose** of the appointment.

Report postdoctorates by source of support in columns (A) through (D), with the total number of postdoctorates reported in column (E). Of this total, report the number who are foreign in column (F).

Other non-faculty research staff with doctorates – Column (G): Include all doctoral scientists and engineers who are involved principally in research activities but are not considered either postdoctoral appointees or members of the regular faculty.

On line (2), report the number of women in each category. On line (3), report those postdoctorates and nonfaculty research staff who hold first professional medical degrees (M.D., D.D.S., D.O., D.V.M.). Please note that in each column, data on lines (2) and (3) should not exceed the total on line (1).

DEFINITIONS

- **National Institutes of Health Organizational Roster**
  Item 5, column (B)

  National Institute on Aging
  National Institute on Allergy and Infectious Disease
  National Institute of Arthritis and Musculoskeletal and Skin Diseases
  National Cancer Institute
  National Institute of Child Health and Human Development
  National Institute on Deafness and Other Communication Disorders
  National Institute of Dental Research
  National Institute of Diabetes and Digestive and Kidney Diseases
  National Institute of Environmental Health Sciences
  National Eye Institute
  National Institute of General Medical Sciences
  National Heart, Lung and Blood Institute
  National Institute of Neurological Disorders and Stroke
  National Library of Medicine
  National Center for Human Genome Research
  National Center for Nursing Research
  National Center for Research Resources
  Fogarty International Center

- **Other HHS Administrative Units**
  Item 5, column (C)

  Alcohol, Drug Abuse and Mental Health Administration
    National Institute on Alcohol Abuse and Alcoholism
    National Institute on Drug Abuse
    National Institute of Mental Health
  Centers for Disease Control
    National Institute for Occupational Safety and Health
  Food and Drug Administration
  Health Resources and Services Administration
  Office of Human Development

- **Racial/Ethnic Categories for U.S. Citizens defined by the Bureau of the Census** (Item 7)

  Black, non-Hispanic: Persons having origins in any of the black racial groups (except those of Hispanic origin).

  American Indian or Alaskan native: Persons having origins in any of the original peoples of North America.

  Asian or Pacific Islander: Persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. These areas include China, Japan, Korea, the Philippine Islands, and Samoa.

  Hispanic: Persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

  White, non-Hispanic: Persons having origins in any of the original peoples of Europe, North Africa, or the Middle East, except those of Hispanic origin.

FOR FURTHER INFORMATION . . .

If you have any questions about the survey, please contact Pamela Krones of Quantum Research Corporation at (301) 657-3070 [fax (301) 657-3862].

UPON COMPLETING THIS FORM, PLEASE RETURN IT TO YOUR SURVEY COORDINATOR FOR TRANSMITTAL BY JANUARY 31, 1993.

NSF Form 812 Oct. 92

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NATIONAL SCIENCE FOUNDATION and NATIONAL INSTITUTES OF HEALTH

Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 1992

Form approved
OMB No. 3145-0062
Appr. Exp. 8/31/93

DEPARTMENT OR PROGRAM DATA SHEET

Due date: January 29, 1993

ITEMS 1-4. IDENTIFYING INFORMATION

1. Institution Name: ____________________

2. Name of S&E department or program: ____________________

If changed since last year, please indicate previous name and whether this represents a merger, split, or expanded program: ____________________

3. Person in department (or program) preparing this form:

Name: ____________________

Title: ____________________

Phone: (   ) ____________________

4. Highest graduate degree available in this department or program (CHECK ONE): (1) Doctorate ______ (2) Master's ______ (3) No Graduate Degree Offered ______

Institution and department code (LEAVE BLANK)

Report all data on a headcount basis (use whole numbers, *not* fractions, decimals, FTEs, etc.). If your department does not enroll graduate students, please go to item 8.

ITEM 5. NUMBER OF FULL-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992. Report each student only once according to the source and mechanism of the largest amount of support received in fall 1992.

Students receiving equal support from multiple sources or through multiple mechanisms should be reported only once. When determining the largest source of support, consider all graduate school expenses including tuition, tuition remission, other academic expenses, stipends, and living expenses.

MECHANISMS OF SUPPORT	Line No	STUDENTS RECEIVING FINANCIAL ASSISTANCE									SELF-SUPPORTED STUDENTS (including loans and family sources)	TOTAL FULL-TIME GRADUATE ENROLLMENT (Sum of (A) through (J))
		FEDERAL SOURCES (excluding loans)						NON-FEDERAL SOURCES				
			HHS									
		Department of Defense (A)	National Institutes of Health (B)	Other HHS (C)	National Science Foundation (D)	Department of Agriculture (E)	Other Federal sources (F)	Institutional support (including State and local government) (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate Fellowships	(1)										■	
Graduate Traineeships	(2)										■	
Graduate Research Assistantships	(3)										■	
Graduate Teaching Assistantships	(4)	■							■		■	
Other Types of Support	(5)											
FULL-TIME TOTAL*	(6)											
Of the students in line (6), how many in each data cell are WOMEN?	(7)											

FIRST-YEAR STUDENTS	(8)	Of the students on line (6), column (K), how many are FIRST-YEAR students? (Should not exceed total on line (6)).	
FIRST-YEAR WOMEN STUDENTS	(9)	Of the first-year students on line (8), how many are WOMEN?	

* The total from line (6) should be inserted in item (7), line (1), column (H)

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ITEM 6. NUMBER OF **PART-TIME** GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992.		
PART-TIME TOTAL*	(1)	
Of the students on line (1), how many are WOMEN?	(2)	

*The total from line (1) should be inserted in item (7), line (2), column (H)

ITEM 7 **RACE/ETHNICITY** OF FULL-TIME (line (1)) and PART-TIME (line (2)) graduate students in fall 1992	Of the student totals in items 5 and 6, how many belong to the following RACIAL/ETHNIC categories? Be sure to count each student only once.		U.S. CITIZENS AND PERMANENT RESIDENTS						FOREIGN temporary visa holders (G)	TOTAL (Sum of (A) through (G)) (H)
			Black non-Hispanic (A)	Amer. Indian/ Alaskan Native (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other, unknown or declined to state (F)		
	FULL TIME, column (H), should equal item 5, line (6), column (K)	(1)								
	PART TIME, column (H), should equal item 6, line (1)	(2)								

ITEM 8 NUMBER OF **POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES** in fall 1992.		POSTDOCTORATES						OTHER NON-FACULTY RESEARCH STAFF WITH DOCTORATES (G)
		SOURCE OF SUPPORT				TOTAL for all sources (A) through (D) (E)	Of the total in (E), how many are FOREIGN? (F)	
		Federal			Non-Federal (D)			
		Fellowships (A)	Traineeships (B)	Research grants (C)				
TOTAL	(1)							
Of the total in each cell of line (1), how many are WOMEN?	(2)							
Of the total in each cell of line (1), how many hold the M.D., D.O., D.D.S., or D.V.M. degree?	(3)							

Approximately how many personhours were required to complete this form? ☐

Explain variances from prior year's data or include other comments:

List other Federal sources (agencies) from item 5, column (F), and number of full-time students supported by each:

This questionnaire has been printed on recycled paper.

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Survey of Graduate Students and Postdoctorates in Science and Engineering

CROSSWALK BETWEEN NSF DISCIPLINE CODES AND THE NCES CLASSIFICATION OF INSTRUCTIONAL PROGRAMS

The following set of discipline codes is used to categorize science and engineering departments in the Survey of Graduate Students and Postdoctorates in Science and Engineering. Representative department names are shown under each of the discipline codes.

ENGINEERING

- 101 AEROSPACE ENGINEERING
  - 14.02 AEROSPACE, AERONAUTICAL, AND ASTRONAUTICAL ENGINEERING
- 102 AGRICULTURAL ENGINEERING
  - 14.03 AGRICULTURAL ENGINEERING
- 103 BIOMEDICAL ENGINEERING
  - 14.05 BIOENGINEERING AND BIOMEDICAL ENGINEERING
- 104 CHEMICAL AND RELATED ENGINEERING
  - 03.0509 WOOD SCIENCE
  - 14.07 CHEMICAL ENGINEERING
  - 14.32 POLYMER/PLASTICS ENGINEERING
- 105 CIVIL AND RELATED ENGINEERING
  - 04.02 ARCHITECTURE
  - 14.04 ARCHITECTURAL ENGINEERING
  - 14.08 CIVIL ENGINEERING
  - 14.0803 STRUCTURAL ENGINEERING
  - 14.0805 WATER RESOURCES ENGINEERING
  - 14.14 ENVIRONMENTAL/ENVIRONMENTAL HEALTH ENGINEERING
- 106 ELECTRICAL AND RELATED ENGINEERING
  - 14.09 COMPUTER ENGINEERING
  - 14.10 ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS ENGINEERING
- 107 ENGINEERING SCIENCE AND ENGINEERING PHYSICS
  - 14.12 ENGINEERING PHYSICS
  - 14.13 ENGINEERING SCIENCE
- 108 INDUSTRIAL/MANUFACTURING ENGINEERING
  - 14.17 INDUSTRIAL/MANUFACTURING ENGINEERING
  - 14.27 SYSTEMS ENGINEERING
  - 14.30 ENGINEERING/INDUSTRIAL MANAGEMENT
  - 30.06 SYSTEMS SCIENCE
- 109 MECHANICAL AND RELATED ENGINEERING
  - 14.11 ENGINEERING MECHANICS
  - 14.19 MECHANICAL ENGINEERING
- 110 METALLURGICAL AND MATERIALS ENGINEERING
  - 14.06 CERAMIC SCIENCES AND ENGINEERING
  - 14.18 MATERIALS ENGINEERING
  - 14.20 METALLURGICAL ENGINEERING
  - 14.28 TEXTILE SCIENCES AND ENGINEERING
  - 14.31 MATERIALS SCIENCE
  - 40.0701 METALLURGY
- 111 MINING AND RELATED ENGINEERING
  - 14.15 GEOLOGICAL ENGINEERING
  - 14.16 GEOPHYSICAL ENGINEERING
  - 14.21 MINING AND MINERAL ENGINEERING
- 112 NUCLEAR ENGINEERING
  - 14.23 NUCLEAR ENGINEERING
- 113 PETROLEUM ENGINEERING
  - 14.25 PETROLEUM ENGINEERING
- 114 ENGINEERING, N.E.C.
  - 14.01 ENGINEERING, GENERAL
  - 14.22 NAVAL ARCHITECTURE AND MARINE ENGINEERING
  - 14.24 OCEAN ENGINEERING
  - 14.29 ENGINEERING DESIGN
  - 14.99 ENGINEERING, OTHER

PHYSICAL SCIENCES

- 201 ASTRONOMY
  - 40.02 ASTRONOMY
  - 40.03 ASTROPHYSICS
- 202 CHEMISTRY
  - 40.05 CHEMISTRY (see also 602)
  - 40.0507 POLYMER CHEMISTRY
- 203 PHYSICS
  - 40.08 PHYSICS (see also 605)
  - 40.0807 OPTICS
  - 40.0809 ACOUSTICS
- 204 PHYSICAL SCIENCES, N.E.C.
  - 40.01 PHYSICAL SCIENCES, GENERAL
  - 40.0799 MISCELLANEOUS PHYSICAL SCIENCES, OTHER
  - 40.99 PHYSICAL SCIENCES, OTHER

EARTH, ATMOSPHERIC, AND OCEAN SCIENCES

- 301 ATMOSPHERIC SCIENCES
  - 40.04 ATMOSPHERIC SCIENCES AND METEOROLOGY
- 302 GEOSCIENCES
  - 40.06 GEOLOGICAL AND RELATED SCIENCES
  - 40.0703 EARTH AND PLANETARY SCIENCES
- 303 OCEAN SCIENCES
  - 26.0607 MARINE/AQUATIC BIOLOGY
  - 40.0702 OCEANOGRAPHY
- 304 EARTH, ATMOSPHERIC, AND OCEAN SCIENCES, N.E.C.

MATHEMATICAL SCIENCES

- 402 MATHEMATICS AND APPLIED MATHEMATICS
  - 27.01 MATHEMATICS
  - 27.03 APPLIED MATHEMATICS
  - 27.0302 OPERATIONS RESEARCH
  - 27.99 MATHEMATICS, OTHER
  - 30.08 MATHEMATICS AND COMPUTER SCIENCE
- 403 STATISTICS
  - 27.05 MATHEMATICAL STATISTICS
  - 52.0802 ACTUARIAL SCIENCE

COMPUTER SCIENCE

- 401 COMPUTER SCIENCE
  - 11.01 COMPUTER AND INFORMATION SCIENCES, GENERAL
  - 11.04 INFORMATION SCIENCES AND SYSTEMS
  - 11.07 COMPUTER SCIENCE
  - 52.1201 MANAGEMENT INFORMATION SYSTEMS
  - 52.13 MANAGEMENT SCIENCE

AGRICULTURAL SCIENCES (SEE ALSO 102 AND 901)

- 501 AGRICULTURAL SCIENCES
  - 02.01 AGRICULTURE/AGRICULTURAL SCIENCES
  - 02.02 ANIMAL SCIENCES
  - 02.03 FOOD SCIENCES
  - 02.04 PLANT SCIENCES
  - 02.05 SOIL SCIENCES
  - 02.99 AGRICULTURAL SCIENCES, OTHER
  - 03.01 NATURAL RESOURCES CONSERVATION
  - 03.02 CONSERVATION AND REGULATION
  - 03.03 FISHING AND FISHERIES SCIENCES AND MANAGEMENT
  - 03.05 FORESTRY AND RELATED SCIENCES
  - 03.06 WILDLIFE AND WILDLANDS MANAGEMENT
  - 03.99 CONSERVATION AND NATURAL RESOURCES, OTHER

BIOLOGICAL SCIENCES

- 601 ANATOMY
  - 26.0601 ANATOMY
  - 51.1301 MEDICAL ANATOMY
- 602 BIOCHEMISTRY
  - 26.0202 BIOCHEMISTRY
  - 51.1302 MEDICAL BIOCHEMISTRY
- 603 BIOLOGY
  - 26.01 BIOLOGY, GENERAL
- 604 BIOMETRY AND EPIDEMIOLOGY
  - 26.0614 BIOMETRICS
  - 26.0615 BIOSTATISTICS
  - 51.1303 MEDICAL BIOMATHEMATICS AND BIOMETRICS
  - 51.2203 EPIDEMIOLOGY
- 605 BIOPHYSICS
  - 26.0203 BIOPHYSICS
  - 51.1304 MEDICAL BIOPHYSICS/PHYSICS
- 606 BOTANY
  - 26.03 BOTANY (EXCLUDING 26.05 MICROBIOLOGY/BACTERIOLOGY – See 611)
  - 26.0305 PLANT PATHOLOGY
  - 26.0307 PLANT PHYSIOLOGY

- 607 CELL AND MOLECULAR BIOLOGY
  - 26.04 CELL AND MOLECULAR BIOLOGY
  - 26.0401 CELL BIOLOGY
  - 26.0402 MOLECULAR BIOLOGY
  - 51.1305 MEDICAL CELL BIOLOGY
  - 51.1309 MEDICAL MOLECULAR BIOLOGY
- 608 ECOLOGY
  - 26.0603 ECOLOGY
- 609 ENTOMOLOGY AND PARASITOLOGY
  - 26.0610 PARASITOLOGY
  - 26.0702 ENTOMOLOGY
- 610 GENETICS
  - 26.0613 GENETICS, PLANT AND ANIMAL
  - 26.0617 EVOLUTIONARY BIOLOGY
  - 51.1306 MEDICAL GENETICS
- 611 MICROBIOLOGY, IMMUNOLOGY, AND VIROLOGY
  - 26.05 MICROBIOLOGY/BACTERIOLOGY
  - 26.0618 BIOLOGICAL IMMUNOLOGY
  - 26.0619 VIROLOGY
  - 51.1308 MEDICAL MICROBIOLOGY
- 612 NUTRITION
  - 19.05 FOODS AND NUTRITION STUDIES
  - 26.0609 NUTRITIONAL SCIENCES
  - 51.1311 MEDICAL NUTRITION
- 613 PATHOLOGY
  - 26.0704 PATHOLOGY, HUMAN AND ANIMAL
  - 51.1312 MEDICAL PATHOLOGY
- 614 PHARMACOLOGY
  - 26.0612 TOXICOLOGY
  - 26.0705 PHARMACOLOGY, HUMAN AND ANIMAL
  - 51.1314 MEDICAL TOXICOLOGY
- 615 PHYSIOLOGY
  - 26.0706 PHYSIOLOGY, HUMAN AND ANIMAL
  - 51.1313 MEDICAL PHYSIOLOGY
- 616 ZOOLOGY
  - 26.07 ZOOLOGY
- 617 BIOSCIENCES, N.E.C.
  - 26.0616 BIOTECHNOLOGY RESEARCH
  - 26.0699 MISCELLANEOUS BIOLOGICAL SPECIALIZATIONS, OTHER
  - 26.99 BIOLOGICAL SCIENCES/LIFE SCIENCES, OTHER
  - 30.01 BIOLOGICAL AND PHYSICAL SCIENCES
  - 30.10 BIOPSYCHOLOGY

PSYCHOLOGY

- 801 PSYCHOLOGY, COMBINED
  - 42.01 PSYCHOLOGY, GENERAL
- 802 PSYCHOLOGY, EXCEPT CLINICAL
  - 42.03 COGNITIVE PSYCHOLOGY AND PSYCHOLINGUISTICS
  - 42.04 COMMUNITY PSYCHOLOGY
  - 42.07 DEVELOPMENTAL AND CHILD PSYCHOLOGY
  - 42.08 EXPERIMENTAL PSYCHOLOGY
  - 42.09 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY
  - 42.11 PHYSIOLOGICAL PSYCHOLOGY/PSYCHOBIOLOGY
  - 42.16 SOCIAL PSYCHOLOGY
  - 42.17 SCHOOL PSYCHOLOGY
  - 42.99 PSYCHOLOGY, OTHER
  - 51.2301 ART THERAPY
  - 51.2303 HYPNOTHERAPY
  - 51.2705 PSYCHOANALYSIS
- 803 CLINICAL PSYCHOLOGY
  - 42.02 CLINICAL PSYCHOLOGY

SOCIAL SCIENCES

- 901 AGRICULTURAL ECONOMICS
  - 01.0101 AGRICULTURAL BUSINESS AND MANAGEMENT, GENERAL
  - 01.0102 AGRICULTURAL BUSINESS/AGRIBUSINESS OPERATIONS
  - 01.0103 AGRICULTURAL ECONOMICS
- 902 ANTHROPOLOGY (CULTURAL AND SOCIAL)
  - 45.02 ANTHROPOLOGY
  - 45.03 ARCHAEOLOGY
- 903 ECONOMICS
  - 45.06 ECONOMICS
  - 52.06 BUSINESS/MANAGERIAL ECONOMICS
- 904 GEOGRAPHY
  - 45.0701 GEOGRAPHY
  - 45.0702 CARTOGRAPHY
- 905 HISTORY AND PHILOSOPHY OF SCIENCE
  - 45.0804 HISTORY AND PHILOSOPHY OF SCIENCE
- 906 LINGUISTICS
  - 16.0102 LINGUISTICS
- 907 POLITICAL SCIENCE/PUBLIC ADMINISTRATION
  - 44.04 PUBLIC ADMINISTRATION
  - 44.05 PUBLIC POLICY ANALYSIS
  - 44.99 PUBLIC ADMINISTRATION AND SERVICES, OTHER
  - 45.09 INTERNATIONAL RELATIONS AND AFFAIRS
  - 45.10 POLITICAL SCIENCE AND GOVERNMENT
- 908 SOCIOLOGY
  - 45.05 DEMOGRAPHY AND POPULATION STUDIES
  - 45.11 SOCIOLOGY
- 909 SOCIOLOGY/ANTHROPOLOGY
- 910 SOCIAL SCIENCES, N.E.C.
  - 04.03 CITY/URBAN, COMMUNITY, AND REGIONAL PLANNING
  - 04.07 ARCHITECTURAL URBAN DESIGN AND PLANNING
  - 05 AREA, ETHNIC, AND CULTURAL STUDIES
  - 30.11 GERONTOLOGY
  - 43.01 CRIMINAL JUSTICE AND CORRECTIONS
  - 44.02 COMMUNITY ORGANIZATION, RESOURCES, AND SERVICES
  - 45.01 SOCIAL SCIENCES, GENERAL
  - 45.04 CRIMINOLOGY
  - 45.12 URBAN AFFAIRS/STUDIES
  - 45.99 SOCIAL SCIENCES, OTHER

HEALTH FIELDS (SEE ALSO 103)

- 701 ANESTHESIOLOGY
  - 51.1604 NURSING ANESTHETIST (POST-R.N.)
- 702 CARDIOLOGY
- 703 ONCOLOGY/CANCER RESEARCH
- 704 ENDOCRINOLOGY
- 705 GASTROENTEROLOGY
- 706 HEMATOLOGY
- 707 NEUROLOGY
  - 26.0608 NEUROSCIENCES
- 708 OBSTETRICS AND GYNECOLOGY
- 709 OPHTHALMOLOGY
  - 51.1701 OPTOMETRY (O.D.)
- 710 OTORHINOLARYNGOLOGY
- 711 PEDIATRICS
- 712 PREVENTIVE MEDICINE AND COMMUNITY HEALTH
  - 51.22 PUBLIC HEALTH
  - 51.2202 ENVIRONMENTAL HEALTH
- 713 PSYCHIATRY
  - 51.1610 NURSING, PSYCHIATRY/MENTAL HEALTH (POST-R.N.)
- 714 PULMONARY DISEASE
- 715 RADIOLOGY
  - 26.0611 RADIATION BIOLOGY/RADIOBIOLOGY
- 716 SURGERY
- 717 CLINICAL MEDICINE, N.E.C.
  - 51.1399 MEDICAL BASIC SCIENCES, OTHER
  - 51.1201 MEDICINE (M.D.)
  - 51.14 MEDICAL CLINICAL SCIENCES (M.S., Ph.D.)
  - 51.19 OSTEOPATHIC MEDICINE (D.O.)
  - 51.21 PODIATRY (D.P.M., D.P., Pod.D.)
- 718 DENTAL SCIENCES
  - 51.04 DENTISTRY (D.D.S., D.M.D.)
  - 51.05 DENTAL CLINICAL SCIENCES/GRADUATE DENTISTRY (M.S., Ph.D.)
- 719 NURSING
  - 51.16 NURSING (EXCLUDING 51.1610, NURSING, PSYCHIATRY/MENTAL HEALTH – SEE 713, AND 51.1604 NURSING ANESTHETIST – See 701)
- 720 PHARMACEUTICAL SCIENCES
  - 51.20 PHARMACY
- 721 VETERINARY SCIENCES
  - 51.24 VETERINARY MEDICINE (D.V.M.)
  - 51.25 VETERINARY CLINICAL SCIENCES (M.S., Ph.D.)
- 722 HEALTH RELATED, N.E.C.
  - 31.0505 EXERCISE SCIENCE/PHYSIOLOGY AND MOVEMENT STUDIES
  - 51.2306 OCCUPATIONAL THERAPY
  - 51.2308 PHYSICAL THERAPY
  - 51.2399 REHABILITATION/THERAPEUTIC SERVICES, OTHER
  - 51.2704 NATUROPATHIC MEDICINE
  - 51.99 HEALTH PROFESSIONS AND RELATED SCIENCES, OTHER
- 723 COMMUNICATION DISORDERS SCIENCES
  - 51.02 COMMUNICATION DISORDERS SCIENCES AND SERVICES
  - 51.0201 COMMUNICATION DISORDERS, GENERAL
  - 51.0202 AUDIOLOGY/HEARING SCIENCES
  - 51.0203 SPEECH-LANGUAGE PATHOLOGY
  - 51.0204 SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

HOW TO AVOID COMMON SURVEY ERRORS

Survey forms requiring mathematical corrections and/or verification for possible data inconsistencies are returned to departments before they are considered final. To avoid common mistakes found on the survey forms, please follow these guidelines:

(1) Use only whole numbers, not decimals or fractions. When reporting graduate students in Items 5, 6, and 7, and postdoctoral appointees in Item 8, use headcounts rather than full-time-equivalents (FTEs).

(2) Count only full-time, degree-seeking graduate students in Item 5, and count each only once, by the largest source of support, so that all columns and rows sum to the full-time total in line 6(K).

(3) Don't forget full-time, self-supported students, who should be reported in Item 5, column (J). Self-supported students are supported primarily through loans, personal savings, and/or family contributions.

(4) Don't forget to report sources of support for all full-time women in Item 5, line 7.

(5) For the purposes of this survey, fellowships are competitive awards which require no work from the recipient. Do not report students in the fellowship row of Item 5 if their largest source of support does not fit this definition.

(6) Report only full-time, first-year students in Item 5, lines 8 and 9. The total number of full-time, first-year students reported in Item 5, line 8 should not be greater than the full-time total reported in Item 5, line 6(K). Likewise, the total number of first-year full-time women reported in Item 5, line 9 should not be greater than the full-time women total reported in Item 5, line 7(K).

(7) Do not report any part-time students in Item 5. Count all part-time students in Items 6 and 7 only.

(8) Be sure the full-time total reported in Item 5, line 6(K) equals the full-time total reported in Item 7, line 1(H). The part-time total reported in Item 6, line 1 should equal the part-time total reported in Item 7, line 2(H).

(9) Count only U.S. citizens and permanent residents in Item 7, columns A-F. Count all foreign students on temporary visas in column (G) only, regardless of race/ethnicity.

(10) For the purposes of this survey, departments or programs that do not offer graduate degrees (Ph.D. or master's) are considered as "no-degree" programs, even if they grant a first professional doctorate. Such "no-degree" programs should not report students, postdoctoral appointees, or anyone else in Items 5, 6, and 7. Count individuals in a "no-degree" program only in Item 8, and only if they qualify as postdoctoral appointees or other non-faculty research staff by this survey's definitions.

(11) Report the total number of postdoctorates in Item 8, line 1(E). Don't forget the total women postdoctorates in Item 8, line 2(E), and total postdoctorates holding M.D., D.D.S., and D.V.M. degrees in Item 8, line 3(E). Of each of these, foreign postdoctorates should also be reported in Item 8, column (F).

(12) If the data for 1992 vary significantly from those provided last year, please note the reasons for the change in the "Comments" section of the survey Form 812.

If you have any questions, please contact Ms. Pamela Krones of Quantum Research Corporation at (301) 657-3070.

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Table IV-A-1. Summary of responses from all departments at all graduate institutions: fall 1992

Number of departments: 10,936

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	647	1,102	201	2,367	125	3,390	14,455	2,447	4,098		28,832
Graduate traineeships (2)	93	4,945	2,950	109	31	1,889	4,560	179	645		15,401
Graduate research assistants (3)	5,668	10,448	1,016	10,625	2,945	11,593	31,707	816	12,790		87,608
Graduate teaching assistants (4)		187	28	97	27	305	64,513		571		65,728
Other types of support (5)	2,732	303	107	100	103	1,581	12,820	2,986	3,348	101,750	125,830
FULL-TIME TOTAL (6)	9,140	16,985	4,302	13,298	3,231	18,758	128,055	6,428	21,452	101,750	323,399
Full-time women (7)	1,437	7,546	3,183	3,339	1,047	6,009	47,341	1,330	6,204	44,283	121,719
Full-time first-year total (8)											95,244
Full-time first-year women (9)											39,549

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	171,998
Women (2)	78,084

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only						Foreign (G)	Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)		
Full-time (1)	10,158	1,012	14,943	9,155	182,079	9,560	96,492	323,399
Part-time (2)	8,282	516	9,232	5,558	121,115	10,122	17,173	171,998

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates							Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)		
	Federal			Non-Federal (D)				
	Fellowships (A)	Traineeships (B)	Research grants (C)					
Total (1)	2,976	2,905	17,097	10,308	33,286	17,024		5,471
Women (2)	1,007	1,145	4,448	2,805	9,405	4,296		1,430
With MD, DDS, or DVM degrees (3)	827	1,272	1,869	3,126	7,094	3,548		551

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-2. Summary of responses from all science departments at all graduate institutions: fall 1992

Number of departments: 6,619

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance: Federal sources (excluding loans): DOD (A)	HHS: NIH (B)	HHS: Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Non-Federal sources: Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
Graduate fellowships (1)	310	861	91	1,539	77	2,322	11,177	1,637	2,679		20,693
Graduate traineeships (2)	50	3,887	276	81	24	716	3,332	132	453		8,951
Graduate research assistants (3)	2,488	8,912	755	6,912	2,579	6,952	21,010	521	6,331		56,460
Graduate teaching assistants (4)		160	17	80	21	212	51,485		356		52,331
Other types of support (5)	1,009	239	41	59	94	1,070	8,434	1,683	1,851	63,612	78,092
FULL-TIME TOTAL (6)	3,857	14,059	1,180	8,671	2,795	11,272	95,438	3,973	11,670	63,612	216,527
Full-time women (7)	719	6,236	637	2,444	964	3,719	38,674	937	4,183	29,613	88,126
Full-time first-year total (8)											60,570
Full-time first-year women (9)											26,654

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	97,039
Women (2)	45,127

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only: Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	Total (sum of columns A - G) (H)
Full-time (1)	7,479	737	8,980	6,233	128,635	5,920	58,543	216,527
Part-time (2)	5,519	339	4,411	3,560	67,965	5,822	9,423	97,039

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates: Source of support: Federal: Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)	Total for all sources (A - D) (E)	Foreign postdoctorates (F)		Other non-fac. doctoral research staff (G)
Total (1)	1,902	1,319	12,901	5,644	21,766	11,098		3,686
Women (2)	655	566	3,406	1,599	6,226	2,879		931
With MD, DDS, or DVM degrees (3)	209	294	865	633	2,001	1,155		260

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-3. Summary of responses from all physical science departments at all graduate institutions: fall 1992

Number of departments: 686

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	76	55	20	314	2	746	894	162	502		2,771
Graduate traineeships (2)	3	235	3	8	1	186	223	4	14		677
Graduate research assistants (3)	1,021	1,735	105	3,257	63	2,915	1,969	72	1,423		12,560
Graduate teaching assistants (4)		8	0	19	2	28	11,780		35		11,872
Other types of support (5)	88	1	4	5	0	56	493	94	138	1,971	2,850
FULL-TIME TOTAL (6)	1,188	2,034	132	3,603	68	3,931	15,359	332	2,112	1,971	30,730
Full-time women (7)	190	643	50	769	19	798	3,998	53	523	445	7,488
Full-time first-year total (8)											6,948
Full-time first-year women (9)											1,919

6. PART-TIME GRADUATE S/E STUDENTS		
	Total (1)	4,766
	Women (2)	1,357

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	Total (sum of columns A - G) (H)
Full-time (1)	629	63	1,334	572	15,593	611	11,928	30,730
Part-time (2)	177	4	279	108	3,039	256	903	4,766

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates							
	Source of support							
	Federal							
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)	Total for all sources (A - D) (E)	Foreign postdoctorates (F)		Other non-fac. doctoral research staff (G)
Total (1)	344	39	4,249	1,192	5,824	3,542		1,051
Women (2)	65	10	561	207	843	511		132
With MD, DDS, or DVM degrees (3)	0	0	3	2	5	1		2

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-4. Summary of responses from all earth, atmospheric, and ocean sciences departments at all graduate institutions: fall 1992

Number of departments: 384

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	42	2	0	81	1	157	372	67	181		903
Graduate traineeships (2)	3	6	6	3	0	22	48	10	4		102
Graduate research assistants (3)	302	35	0	1,231	86	1,258	1,246	34	487		4,679
Graduate teaching assistants (4)		0	0	2	0	12	2,448		12		2,474
Other types of support (5)	125	0	0	6	4	65	261	134	103	2,294	2,992
FULL-TIME TOTAL (6)	472	43	6	1,323	91	1,514	4,375	245	787	2,294	11,150
Full-time women (7)	111	20	1	393	30	478	1,400	42	206	759	3,440
Full-time first-year total (8)											3,049
Full-time first-year women (9)											1,058

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	4,459
Women (2)	1,484

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only						Foreign (G)	Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)		
Full-time (1)	132	25	298	226	7,431	349	2,689	11,150
Part-time (2)	75	12	96	86	3,687	176	327	4,459

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	44	6	508	155	713	277	345
Women (2)	10	1	101	42	154	45	59
With MD, DDS, or DVM degrees (3)	5	0	3	0	8	2	1

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-5. Summary of responses from all mathematical science departments at all graduate institutions: fall 1992

Number of departments: 483

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	38	2	0	120	0	296	715	137	107		1,415
Graduate traineeships (2)	3	11	0	2	0	79	110	3	12		220
Graduate research assistants (3)	139	43	6	324	22	150	613	7	107		1,411
Graduate teaching assistants (4)		1	1	9	1	10	7,628		61		7,711
Other types of support (5)	206	4	0	2	2	28	481	141	67	2,975	3,906
FULL-TIME TOTAL (6)	386	61	7	457	25	563	9,547	288	354	2,975	14,663
Full-time women (7)	59	11	3	110	8	160	2,924	62	102	980	4,419
Full-time first-year total (8)											4,404
Full-time first-year women (9)											1,477

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	5,712
Women (2)	2,133

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	(H)
Full-time (1)	331	20	610	231	7,138	588	5,745	14,663
Part-time (2)	247	6	333	146	3,715	513	752	5,712

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Federal						
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	23	6	114	58	201	109	57
Women (2)	4	0	13	9	26	8	5
With MD, DDS, or DVM degrees (3)	2	0	30	0	32	18	16

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-6. Summary of responses from all computer science departments at all graduate institutions: fall 1992

Number of departments: 334

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	47	11	0	115	1	47	423	67	184		895
Graduate traineeships (2)	5	9	0	4	0	10	43	38	21		130
Graduate research assistants (3)	778	78	3	817	5	289	1,097	30	578		3,675
Graduate teaching assistants (4)		0	0	14	0	3	3,481		41		3,539
Other types of support (5)	364	0	0	6	0	29	539	190	210	8,040	9,378
FULL-TIME TOTAL (6)	1,194	98	3	956	6	378	5,583	325	1,034	8,040	17,617
Full-time women (7)	166	20	1	132	0	68	1,071	50	184	1,866	3,558
Full-time first-year total (8)											5,464
Full-time first-year women (9)											1,178

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	18,779
Women (2)	4,840

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	(H)
Full-time (1)	383	25	1,507	227	6,147	707	8,621	17,617
Part-time (2)	667	57	1,987	468	10,811	1,443	3,346	18,779

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff
	Source of support				Total for all sources	Foreign postdoctorates	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)	(A - D) (E)	(F)	(G)
Total (1)	2	1	110	37	150	51	77
Women (2)	0	1	29	4	34	12	9
With MD, DDS, or DVM degrees (3)	0	0	0	0	0	0	4

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-7. Summary of responses from all agricultural science departments at all graduate institutions: fall 1992

Number of departments: 338

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	2	3	0	18	15	81	185	115	90		509
Graduate traineeships (2)	0	1	0	4	8	31	51	10	1		106
Graduate research assistants (3)	14	24	1	61	1,031	598	2,393	135	840		5,097
Graduate teaching assistants (4)		0	0	0	2	0	763		14		779
Other types of support (5)	2	2	0	1	23	39	197	318	119	2,088	2,789
FULL-TIME TOTAL (6)	18	30	1	84	1,079	749	3,589	578	1,064	2,088	9,280
Full-time women (7)	3	8	0	39	316	206	1,216	106	334	709	2,937
Full-time first-year total (8)											2,169
Full-time first-year women (9)											779

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	2,329
Women (2)	747

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	134	31	175	236	5,713	163	2,828	9,280
Part-time (2)	45	8	41	47	1,822	49	317	2,329

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	41	2	374	217	634	275	195
Women (2)	9	1	99	52	161	61	42
With MD, DDS, or DVM degrees (3)	0	0	6	7	13	9	4

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-8. Summary of responses from all biological science departments at all graduate institutions: fall 1992

Number of departments: 2,099

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	48	677	34	394	39	210	2,735	264	789		5,190
Graduate traineeships (2)	22	3,290	156	41	10	83	1,089	30	82		4,803
Graduate research assistants (3)	108	6,267	255	864	997	932	5,982	169	1,975		17,549
Graduate teaching assistants (4)		120	4	31	16	20	8,665		80		8,936
Other types of support (5)	56	208	21	9	50	179	1,294	214	275	5,734	8,040
FULL-TIME TOTAL (6)	234	10,562	470	1,339	1,112	1,424	19,765	677	3,201	5,734	44,518
Full-time women (7)	91	4,774	235	576	462	617	9,062	184	1,293	2,856	20,150
Full-time first-year total (8)											10,885
Full-time first-year women (9)											5,388

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	9,919
Women (2)	5,389

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	Total (sum of columns A - G) (H)
Full-time (1)	1,110	113	2,378	1,187	27,133	773	11,824	44,518
Part-time (2)	381	26	464	297	7,261	481	1,009	9,919

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1,347	1,155	7,214	3,594	13,310	6,578	1,679
Women (2)	514	494	2,465	1,142	4,615	2,164	573
With MD, DDS, or DVM degrees (3)	197	290	815	608	1,910	1,108	225

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-9. Summary of responses from all psychology departments at all graduate institutions: fall 1992

Number of departments: 745

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance: Federal sources (excluding loans): DOD (A)	HHS: NIH (B)	HHS: Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Non-Federal sources: Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
Graduate fellowships (1)	27	56	18	147	0	143	1,454	36	103		1,984
Graduate traineeships (2)	9	243	72	7	0	144	591	1	110		1,177
Graduate research assistants (3)	62	595	328	118	19	303	2,561	4	300		4,290
Graduate teaching assistants (4)		27	9	2	0	14	5,695		56		5,803
Other types of support (5)	37	18	10	10	0	367	2,562	16	540	17,572	21,132
FULL-TIME TOTAL (6)	135	939	437	284	19	971	12,863	57	1,109	17,572	34,386
Full-time women (7)	61	580	277	158	14	637	8,516	30	691	12,165	23,129
Full-time first-year total (8)											9,944
Full-time first-year women (9)											6,810

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	19,434
Women (2)	13,930

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only: Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	Total (sum of columns A - G) (H)
Full-time (1)	1,681	208	952	1,642	26,947	1,295	1,661	34,386
Part-time (2)	1,107	83	345	736	15,646	1,189	328	19,434

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates: Source of support: Federal: Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)	Total for all sources (A - D) (E)	Foreign postdoctorates (F)	Other non-fac. doctoral research staff (G)
Total (1)	51	84	228	163	526	129	152
Women (2)	34	45	102	67	248	42	70
With MD, DDS, or DVM degrees (3)	2	4	8	13	27	13	3

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-10. Summary of responses from all social science departments at all graduate institutions: fall 1992

Number of departments: 1,550

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	30	55	19	350	19	642	4,399	789	723		7,026
Graduate traineeships (2)	5	92	39	12	5	161	1,177	36	209		1,736
Graduate research assistants (3)	64	135	57	240	356	507	5,149	70	621		7,199
Graduate teaching assistants (4)		4	3	3	0	125	11,025		57		11,217
Other types of support (5)	131	6	6	20	15	307	2,607	576	399	22,938	27,005
FULL-TIME TOTAL (6)	230	292	124	625	395	1,742	24,357	1,471	2,009	22,938	54,183
Full-time women (7)	38	180	70	267	115	755	10,487	410	850	9,833	23,005
Full-time first-year total (8)											17,707
Full-time first-year women (9)											8,045

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	31,641
Women (2)	15,247

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	3,079	252	1,726	1,912	32,533	1,434	13,247	54,183
Part-time (2)	2,820	143	866	1,672	21,984	1,715	2,441	31,641

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	50	26	104	228	408	137	130
Women (2)	19	14	36	76	145	36	41
With MD, DDS, or DVM degrees (3)	3	0	0	3	6	4	5

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-11. Summary of responses from all engineering departments at all graduate institutions: fall 1992

Number of departments: 1,488

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	306	42	25	786	47	848	2,256	684	1,128		6,122
Graduate traineeships (2)	26	175	32	27	4	162	458	30	129		1,043
Graduate research assistants (3)	3,156	630	47	3,689	303	4,405	8,793	266	5,969		27,258
Graduate teaching assistants (4)		3	0	15	6	61	10,605		173		10,863
Other types of support (5)	1,397	7	2	41	7	226	2,693	1,014	1,081	22,712	29,180
FULL-TIME TOTAL (6)	4,885	857	106	4,558	367	5,702	24,805	1,994	8,480	22,712	74,466
Full-time women (7)	506	210	21	865	53	878	3,657	154	1,255	3,038	10,637
Full-time first-year total (8)											21,911
Full-time first-year women (9)											3,515

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	43,581
Women (2)	6,521

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	(H)
Full-time (1)	1,352	106	4,574	1,360	29,988	2,834	34,252	74,466
Part-time (2)	1,020	71	4,002	1,090	27,380	3,072	6,946	43,581

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates							Other non-fac. doctoral research staff
	Source of support				Total for all sources (A - D)	Foreign postdoctorates		
	Federal							
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)	(E)	(F)		(G)
Total (1)	59	18	1,539	738	2,354	1,583		720
Women (2)	8	5	162	70	245	151		68
With MD, DDS, or DVM degrees (3)	2	4	24	14	44	24		10

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-12. Summary of responses from all aerospace engineering departments at all graduate institutions: fall 1992

Number of departments: 50

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	38	0	0	45	0	50	108	55	49		345
Graduate traineeships (2)	4	0	0	0	0	4	17	0	0		25
Graduate research assistants (3)	280	4	5	93	0	320	332	6	175		1,215
Graduate teaching assistants (4)		0	0	0	0	7	405		17		429
Other types of support (5)	399	0	0	1	0	28	90	39	40	695	1,292
FULL-TIME TOTAL (6)	721	4	5	139	0	409	952	100	281	695	3,306
Full-time women (7)	39	1	0	22	0	48	81	5	25	42	263
Full-time first-year total (8)											1,009
Full-time first-year women (9)											100

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	730
Women (2)	85

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	(H)
Full-time (1)	41	5	132	59	1,731	276	1,062	3,306
Part-time (2)	6	1	47	9	502	29	136	730

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff
	Source of support				Total for all sources (A - D)	Foreign postdoctorates	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)	(E)	(F)	(G)
Total (1)	0	0	65	27	92	60	39
Women (2)	0	0	2	2	4	3	1
With MD, DDS, or DVM degrees (3)	0	0	0	0	0	0	0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-13. Summary of responses from all chemical engineering departments at all graduate institutions: fall 1992

Number of departments: 168

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	10	8	18	104	1	64	351	42	184		782
Graduate traineeships (2)	1	65	0	3	0	23	38	0	57		187
Graduate research assistants (3)	107	85	2	569	37	563	1,030	63	812		3,268
Graduate teaching assistants (4)		2	0	2	0	15	957		48		1,024
Other types of support (5)	5	0	0	4	0	14	174	62	49	946	1,254
FULL-TIME TOTAL (6)	123	160	20	682	38	679	2,550	167	1,150	946	6,515
Full-time women (7)	19	42	4	153	3	113	435	21	208	145	1,143
Full-time first-year total (8)											1,615
Full-time first-year women (9)											348

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	1,637
Women (2)	317

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	114	12	351	141	2,454	122	3,321	6,515
Part-time (2)	36	4	130	49	1,036	85	297	1,637

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	3	3	340	216	562	422	152
Women (2)	0	0	43	28	71	51	16
With MD, DDS, or DVM degrees (3)	0	0	0	0	0	0	0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-16. Summary of responses from all industrial engineering departments at all graduate institutions: fall 1992

Number of departments: 170

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	9	3	2	26	0	29	125	42	33		269
Graduate traineeships (2)	0	0	25	1	0	0	0	0	1		27
Graduate research assistants (3)	53	19	4	137	5	119	604	10	296		1,247
Graduate teaching assistants (4)		0	0	0	0	0	887		7		894
Other types of support (5)	214	0	0	1	0	24	277	86	94	2,959	3,655
FULL-TIME TOTAL (6)	276	22	31	165	5	172	1,893	138	431	2,959	6,092
Full-time women (7)	43	12	8	45	1	46	406	9	80	525	1,175
Full-time first-year total (8)											1,894
Full-time first-year women (9)											380

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	7,643
Women (2)	1,489

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	189	14	347	121	2,166	277	2,978	6,092
Part-time (2)	261	29	461	175	5,352	488	877	7,643

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates							Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)		
	Federal							
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)				
Total (1)	1	0	24	13	38	25		17
Women (2)	0	0	2	1	3	2		3
With MD, DDS, or DVM degrees (3)	0	0	0	0	0	0		0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-15. Summary of responses from all electrical engineering departments at all graduate institutions: fall 1992

Number of departments: 254

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	71	3	3	233	0	195	500	133	355		1,493
Graduate traineeships (2)	3	22	0	8	0	20	88	1	20		162
Graduate research assistants (3)	1,204	77	9	1,113	28	625	2,161	30	1,634		6,881
Graduate teaching assistants (4)		0	0	10	0	24	3,367		21		3,422
Other types of support (5)	403	3	0	15	1	26	717	293	388	7,187	9,033
FULL-TIME TOTAL (6)	1,681	105	12	1,379	29	890	6,833	457	2,418	7,187	20,991
Full-time women (7)	169	16	3	222	0	146	771	26	287	774	2,414
Full-time first-year total (8)											5,960
Full-time first-year women (9)											758

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	15,281
Women (2)	1,832

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	433	26	1,806	378	7,079	869	10,400	20,991
Part-time (2)	332	12	2,009	368	8,762	1,404	2,394	15,281

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	8	0	223	81	312	191	122
Women (2)	1	0	24	5	30	18	7
With MD, DDS, or DVM degrees (3)	0	0	5	0	5	4	3

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-14. Summary of responses from all civil engineering departments at all graduate institutions: fall 1992

Number of departments: 230

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	41	3	1	51	3	134	292	166	95		786
Graduate traineeships (2)	7	1	0	4	0	40	133	17	2		204
Graduate research assistants (3)	217	32	3	450	66	723	1,546	22	651		3,710
Graduate teaching assistants (4)		0	0	0	6	5	1,623		6		1,640
Other types of support (5)	48	1	1	4	5	62	692	241	230	4,755	6,039
FULL-TIME TOTAL (6)	313	37	5	509	80	964	4,286	446	984	4,755	12,379
Full-time women (7)	40	15	0	98	17	192	788	44	204	900	2,298
Full-time first-year total (8)											4,350
Full-time first-year women (9)											910

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	7,006
Women (2)	1,307

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	(H)
Full-time (1)	187	20	555	274	5,627	362	5,354	12,379
Part-time (2)	151	10	444	201	4,445	371	1,384	7,006

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates							Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)		
	Federal							
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)				
Total (1)	7	0	127	54	188	127		52
Women (2)	0	0	20	1	21	9		7
With MD, DDS, or DVM degrees (3)	0	0	0	1	1	1		1

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-17. Summary of responses from all mechanical engineering departments at all graduate institutions: fall 1992

Number of departments: 209

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	43	4	0	146	0	164	361	63	128		909
Graduate traineeships (2)	6	9	2	8	0	22	113	0	8		168
Graduate research assistants (3)	525	62	8	625	26	922	1,356	49	1,113		4,686
Graduate teaching assistants (4)		1	0	1	0	3	2,157		28		2,190
Other types of support (5)	135	0	0	10	0	29	411	103	129	3,655	4,472
FULL-TIME TOTAL (6)	709	76	10	790	26	1,140	4,398	215	1,406	3,655	12,425
Full-time women (7)	52	11	0	110	4	84	425	7	132	258	1,083
Full-time first-year total (8)											3,692
Full-time first-year women (9)											351

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	6,343
Women (2)	617

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	Total (sum of columns A - G) (H)
Full-time (1)	199	14	716	207	5,210	525	5,554	12,425
Part-time (2)	123	10	470	190	3,929	427	1,194	6,343

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support						
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)	Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
Total (1)	11	6	236	105	358	213	98
Women (2)	0	2	14	6	22	12	9
With MD, DDS, or DVM degrees (3)	0	1	12	1	14	2	2

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-18. Summary of responses from all metallurgical and materials engineering departments at all graduate institutions: fall 1992

Number of departments: 107

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	60	0	0	67	0	77	91	47	108		450
Graduate traineeships (2)	4	0	0	0	0	19	20	7	7		57
Graduate research assistants (3)	447	15	6	385	20	513	621	44	595		2,646
Graduate teaching assistants (4)		0	0	2	0	4	341		20		367
Other types of support (5)	3	0	0	2	0	5	87	26	36	610	769
FULL-TIME TOTAL (6)	514	15	6	456	20	618	1,160	124	766	610	4,289
Full-time women (7)	86	3	1	112	3	115	257	17	136	82	812
Full-time first-year total (8)											973
Full-time first-year women (9)											213

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	1,181
Women (2)	245

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	Total (sum of columns A - G) (H)
Full-time (1)	41	4	232	55	1,828	131	1,998	4,289
Part-time (2)	19	0	95	17	775	92	183	1,181

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal			Non-Federal (D)			
	Fellowships (A)	Traineeships (B)	Research grants (C)				
Total (1)	3	0	281	174	458	331	121
Women (2)	1	0	30	22	53	36	12
With MD, DDS, or DVM degrees (3)	2	0	1	10	13	10	0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-19. Summary of responses from all other engineering departments at all graduate institutions: fall 1992

Number of departments: 300

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	34	21	1	114	43	135	428	136	176		1,088
Graduate traineeships (2)	1	78	5	3	4	34	49	5	34		213
Graduate research assistants (3)	323	336	10	317	121	620	1,143	42	693		3,605
Graduate teaching assistants (4)		0	0	0	0	3	868		26		897
Other types of support (5)	190	3	1	4	1	38	245	164	115	1,905	2,666
FULL-TIME TOTAL (6)	548	438	17	438	169	830	2,733	347	1,044	1,905	8,469
Full-time women (7)	58	110	5	103	25	134	494	25	183	312	1,449
Full-time first-year total (8)											2,418
Full-time first-year women (9)											455

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	3,760
Women (2)	629

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	(H)
Full-time (1)	148	11	435	125	3,893	272	3,585	8,469
Part-time (2)	92	5	346	81	2,579	176	481	3,760

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	26	9	243	68	346	214	119
Women (2)	6	3	27	5	41	20	13
With MD, DDS, or DVM degrees (3)	0	3	6	2	11	7	4

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-20. Summary of responses from all health fields departments at all graduate institutions: fall 1992

Number of departments: 2,829

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	31	199	85	42	1	220	1,022	126	291		2,017
Graduate traineeships (2)	17	883	2,642	1	3	1,011	770	17	63		5,407
Graduate research assistants (3)	24	906	214	24	63	236	1,904	29	490		3,890
Graduate teaching assistants (4)		24	11	2	0	32	2,423		42		2,534
Other types of support (5)	326	57	64	0	2	285	1,693	289	416	15,426	18,558
FULL-TIME TOTAL (6)	398	2,069	3,016	69	69	1,784	7,812	461	1,302	15,426	32,406
Full-time women (7)	212	1,100	2,525	30	30	1,412	5,010	239	766	11,632	22,956
Full-time first-year total (8)											12,763
Full-time first-year women (9)											9,380

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	31,378
Women (2)	26,436

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	1,327	169	1,389	1,562	23,456	806	3,697	32,406
Part-time (2)	1,743	106	819	908	25,770	1,228	804	31,378

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal			Non-Federal (D)			
	Fellowships (A)	Traineeships (B)	Research grants (C)				
Total (1)	1,015	1,568	2,657	3,926	9,166	4,343	1,065
Women (2)	344	574	880	1,136	2,934	1,266	431
With MD, DDS, or DVM degrees (3)	616	974	980	2,479	5,049	2,369	281

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-B-1. Summary of responses from all departments at doctorate-granting institutions: fall 1992

Number of departments: 9,329

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	638	1,097	199	2,350	119	3,252	13,917	2,422	4,029		28,023
Graduate traineeships (2)	81	4,913	2,793	109	31	1,766	4,340	179	628		14,840
Graduate research assistants (3)	5,594	10,368	993	10,542	2,867	11,311	30,248	815	12,623		85,361
Graduate teaching assistants (4)		185	28	93	21	284	62,038		527		63,176
Other types of support (5)	2,678	289	79	98	103	1,220	11,356	2,929	3,222	86,379	108,353
FULL-TIME TOTAL (6)	8,991	16,852	4,092	13,192	3,141	17,833	121,899	6,345	21,029	86,379	299,753
Full-time women (7)	1,398	7,468	3,025	3,299	1,014	5,555	44,327	1,312	6,064	35,825	109,287
Full-time first-year total (8)											86,132
Full-time first-year women (9)											34,668

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	128,039
Women (2)	55,681

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	Total (sum of columns A - G) (H)
Full-time (1)	8,558	889	13,730	8,308	167,384	8,103	92,781	299,753
Part-time (2)	5,226	366	6,340	3,896	91,044	6,533	14,634	128,039

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support						
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)	Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
Total (1)	2,975	2,903	17,019	10,290	33,187	16,969	5,438
Women (2)	1,007	1,143	4,437	2,804	9,391	4,291	1,420
With MD, DDS, or DVM degrees (3)	827	1,272	1,868	3,125	7,092	3,547	547

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-C-1. Summary of responses from all departments at master's-granting institutions: fall 1992

Number of departments: 1,607

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	9	5	2	17	6	138	538	25	69		809
Graduate traineeships (2)	12	32	157	0	0	123	220	0	17		561
Graduate research assistants (3)	74	80	23	83	78	282	1,459	1	167		2,247
Graduate teaching assistants (4)		2	0	4	6	21	2,475		44		2,552
Other types of support (5)	54	14	28	2	0	361	1,464	57	126	15,371	17,477
FULL-TIME TOTAL (6)	149	133	210	106	90	925	6,156	83	423	15,371	23,646
Full-time women (7)	39	78	158	40	33	454	3,014	18	140	8,458	12,432
Full-time first-year total (8)											9,112
Full-time first-year women (9)											4,881

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	43,959
Women (2)	22,403

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	(H)
Full-time (1)	1,600	123	1,213	847	14,695	1,457	3,711	23,646
Part-time (2)	3,056	150	2,892	1,662	30,071	3,589	2,539	43,959

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1	2	78	18	99	55	33
Women (2)	0	2	11	1	14	5	10
With MD, DDS, or DVM degrees (3)	0	0	1	1	2	1	4

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-D-1. Summary of responses from all departments at all public institutions: fall 1992

Number of departments: 7,636

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	282	585	134	1,094	117	2,345	7,883	1,171	2,421		16,032
Graduate traineeships (2)	49	2,646	2,409	71	29	1,325	1,736	86	357		8,708
Graduate research assistants (3)	3,550	7,173	692	7,690	2,839	9,042	26,194	611	9,735		67,526
Graduate teaching assistants (4)		123	21	85	27	150	52,199		386		52,991
Other types of support (5)	2,435	229	74	83	82	1,144	8,666	2,053	2,278	68,855	85,899
FULL-TIME TOTAL (6)	6,316	10,756	3,330	9,023	3,094	14,006	96,678	3,921	15,177	68,855	231,156
Full-time women (7)	950	4,866	2,572	2,204	990	4,476	34,839	784	4,443	28,792	84,916
Full-time first-year total (8)											67,847
Full-time first-year women (9)											27,670

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	115,672
Women (2)	52,126

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	7,099	778	10,259	6,759	131,182	6,445	68,634	231,156
Part-time (2)	5,502	403	6,270	3,890	81,959	4,732	12,916	115,672

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1,604	1,439	10,585	5,290	18,918	9,598	3,489
Women (2)	514	583	2,720	1,397	5,214	2,328	872
With MD, DDS, or DVM degrees (3)	416	588	866	1,169	3,039	1,380	221

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-D-2. Summary of responses from all departments at all private institutions: fall 1992

Number of departments: 3,300

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	365	517	67	1,273	8	1,045	6,572	1,276	1,677		12,800
Graduate traineeships (2)	44	2,299	541	38	2	564	2,824	93	288		6,693
Graduate research assistants (3)	2,118	3,275	324	2,935	106	2,551	5,513	205	3,055		20,082
Graduate teaching assistants (4)		64	7	12	0	155	12,314		185		12,737
Other types of support (5)	297	74	33	17	21	437	4,154	933	1,070	32,895	39,931
FULL-TIME TOTAL (6)	2,824	6,229	972	4,275	137	4,752	31,377	2,507	6,275	32,895	92,243
Full-time women (7)	487	2,680	611	1,135	57	1,533	12,502	546	1,761	15,491	36,803
Full-time first-year total (8)											27,397
Full-time first-year women (9)											11,879

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	56,326
Women (2)	25,958

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	3,059	234	4,684	2,396	50,897	3,115	27,858	92,243
Part-time (2)	2,780	113	2,962	1,668	39,156	5,390	4,257	56,326

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1,372	1,466	6,512	5,018	14,368	7,426	1,982
Women (2)	493	562	1,728	1,408	4,191	1,968	558
With MD, DDS, or DVM degrees (3)	411	684	1,003	1,957	4,055	2,168	330

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-D-3. Summary of responses from all departments at all historically black institutions: fall 1992

Number of departments: 190

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	6	14	5	10	3	122	114	3	49		326
Graduate traineeships (2)	5	21	24	6	0	20	94	0	6		176
Graduate research assistants (3)	76	71	18	53	69	150	92	1	50		580
Graduate teaching assistants (4)		2	0	2	6	15	278		11		314
Other types of support (5)	0	5	1	0	0	22	141	5	55	783	1,012
FULL-TIME TOTAL (6)	87	113	48	71	78	329	719	9	171	783	2,408
Full-time women (7)	18	63	32	28	25	127	312	6	78	342	1,031
Full-time first-year total (8)											837
Full-time first-year women (9)											398

6. PART-TIME GRADUATE S/E STUDENTS		
	Total (1)	1,656
	Women (2)	788

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	1,231	7	105	17	254	55	739	2,408
Part-time (2)	965	0	46	10	283	53	299	1,656

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	19	7	65	6	97	57	13
Women (2)	10	3	18	3	34	13	5
With MD, DDS, or DVM degrees (3)	10	3	2	0	15	2	0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-D-4. Summary of responses from all departments at all land grant institutions: fall 1992

Number of departments: 3,146

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	286	306	86	1,020	96	1,348	4,185	956	1,620		9,903
Graduate traineeships (2)	32	1,568	1,001	60	30	566	995	60	188		4,500
Graduate research assistants (3)	2,831	3,720	415	5,451	2,542	6,447	13,848	521	6,373		42,148
Graduate teaching assistants (4)		76	9	48	26	85	28,534		173		28,951
Other types of support (5)	322	84	19	46	73	355	2,932	1,167	1,298	27,177	33,473
FULL-TIME TOTAL (6)	3,471	5,754	1,530	6,625	2,767	8,801	50,494	2,704	9,652	27,177	118,975
Full-time women (7)	534	2,501	1,141	1,600	884	2,279	17,378	558	2,640	9,898	39,413
Full-time first-year total (8)											31,796
Full-time first-year women (9)											11,691

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	31,572
Women (2)	13,109

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	Total (sum of columns A - G) (H)
Full-time (1)	2,991	373	5,677	3,941	65,146	2,495	38,352	118,975
Part-time (2)	1,310	91	1,204	1,060	22,292	820	4,795	31,572

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)	
	Federal						
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	949	629	6,498	3,437	11,513	5,894	2,453
Women (2)	288	260	1,571	891	3,010	1,366	587
With MD, DDS, or DVM degrees (3)	215	188	370	588	1,361	657	128

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-D-5. Summary of responses from all departments at all medical schools: fall 1992

Number of departments: 2,900

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
	Federal sources (excluding loans)						Non-Federal sources				
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate fellowships (1)	27	524	46	136	1	104	1,913	78	432		3,261
Graduate traineeships (2)	19	2,055	978	20	0	220	895	15	78		4,280
Graduate research assistants (3)	28	3,326	145	113	18	132	2,555	30	582		6,929
Graduate teaching assistants (4)		71	0	6	0	10	1,114		39		1,240
Other types of support (5)	168	170	19	3	0	105	988	52	139	4,514	6,158
FULL-TIME TOTAL (6)	242	6,146	1,188	278	19	571	7,465	175	1,270	4,514	21,868
Full-time women (7)	122	2,772	917	126	6	339	3,661	54	541	2,856	11,394
Full-time first-year total (8)											6,457
Full-time first-year women (9)											3,752

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	5,432
Women (2)	3,933

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	Total (sum of columns A - G) (H)
Full-time (1)	712	82	1,416	1,104	13,548	366	4,640	21,868
Part-time (2)	262	37	149	210	4,379	136	259	5,432

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Federal						
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1,721	2,305	6,176	5,787	15,989	7,784	1,709
Women (2)	633	904	2,097	1,733	5,367	2,401	670
With MD, DDS, or DVM degrees (3)	760	1,161	1,547	2,923	6,391	3,155	395

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

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In response to the particular interests expressed by many users of data from the Survey of Graduate Students and Postdoctorates in Science and Engineering, a number of pamphlets have been prepared that concentrate on various aspects of the survey results. If you would like to receive additional pamphlets, please check the appropriate boxes below, fill out order form, cut on dotted line, fold in half, tape, and drop in the mail. No postage is necessary.

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